lode-stone/lod-ston/n: 1: a rock or meteorite having the magnetic property of attraction. 2: something that strongly attracts.

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LODESTONE PACIFIC

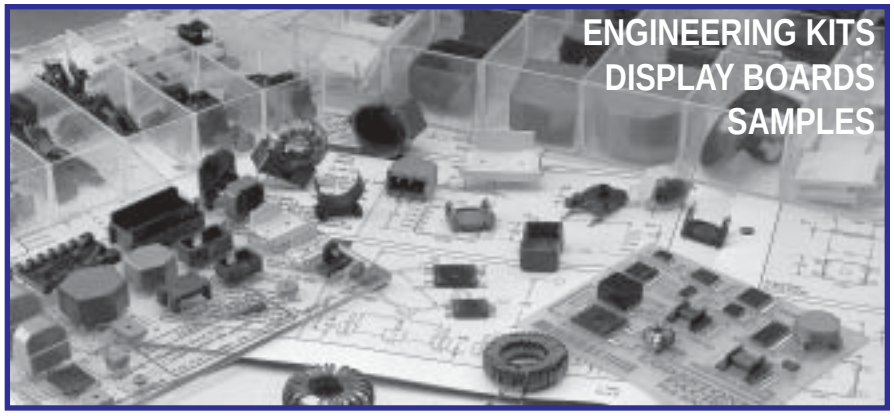
Is the world leader in Toroid Mounts and Headers for the magnetics segment of the electronics industry. The company is structured to offer the highest quality product and service at the lowest total cost, and is committed to substantial inventories that ensure competitive advantage through quick shipments and tightly scheduled delivery. We manufacture in China, Thailand and the United States, and ship worldwide from our warehouses in Asia, Europe and the United States.

Visit our Web Page: **www.lodestonepacific.com**

ENGINEERING KITS

Engineering Kits offer a wide selection of plastic molded component headers and toroid mounts and are ideal for designing new applications. Each kit is $40 and we will replenish missing or used parts free of charge, for ever. Just fax or e-mail your request.

Engineering Kit #6 for wound toroid or components up to .600 inches in diameter. Over 60 solutions.
Engineering Kit #7 for wound toroids or component sizes .600 up to 3.0 inches in diameter. Over 60 solutions.
Engineering Kit #8 for surface mounting of wound toroids or components up to .880 inches in diameter.

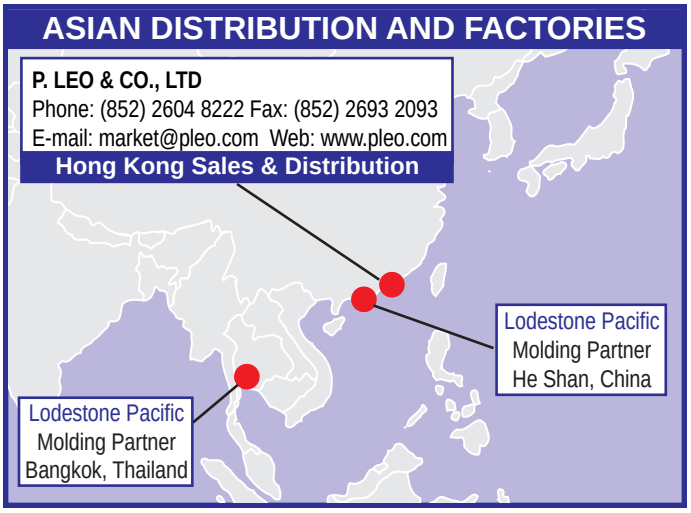


PACKAGING SOLUTIONS

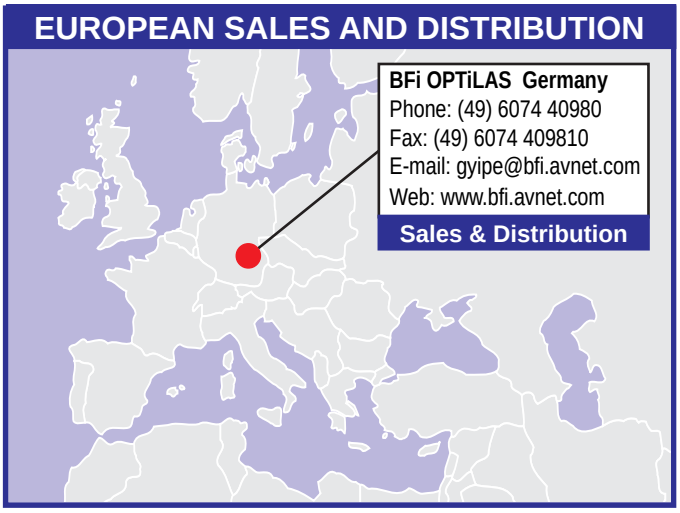
ANTI-STATIC TRAYS Since it is important to protect the terminals of wound components, trays are ideal for handling components during winding, or for delivering the finished component to PCB insertion. These trays are sold separately. For more information on trays, turn to page 46.

ANTI-STATIC TUBES Many Lodestone Pacific toroid mounts are shipped in anti-static tubes. The tubes protect the more fragile product leads from damage in shipment. The more robust toroid mounts are bulk packaged to reduce cost.

ASIAN DISTRIBUTION AND FACTORIES



EUROPEAN SALES AND DISTRIBUTION



MOLDING MATERIALS

The plastic moldings in this catalog divide into two basic performance types:

Thermoplastic: This family of materials is less expensive than thermosets, but more sensitive to elevated temperatures. The safe operation range for these materials is up to 400˚ F with tolerance to 500˚ F for short periods of time. They are widely used in wave, infrared, vapor phase and hand solder applications, but will require careful heat management.

Thermoset: These materials are more expensive to mold, but are very tolerant of all wave, infrared, vapor phase and hand solder temperatures. With the ability to withstand over 700˚ F, these materials are ideal for using a solder pot and self-stripping magnetic wire to form the component lead to mounting device termination.

Type	THERMOPLASTIC								THERMOSET				
Group	Polyamide (Nylon 6/6)				Polyester	PPS	LCP		Epoxy	Diallyl Phthalate (DAP)			Phenolic
Trade Name	RTP 205 FR	Vydyne 909	Zytel FR50	Technyl A20-V25	Rynite FR-530	Ryton R-4	Zenite 7130	RTP 3407-4	E4920	D72	Rx 3-1-525F	DAP 5562	PM 9630
Manufacturer	RTP Co.	Monsanto	DuPont	Nytech	DuPont	Phillips	DuPont	RTP Co.	Cosmic	Cosmic	Rogers	Synres Almoco	Sumitomo
UL File No.	E84658(N)	E70062	E41938(M)	E44716(M)	E69578(M)	E54700	E123598(M)	E84568	E64213	E64213(S)	E123472M	E48036(M)	E41429(M)
UL Flammability **	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO	94-VO
Max Temp (°F) *	480	482	475	482	489	500	552	610	>700	>700	>700	>700	>700
Water Absorption %	.6	.7	.7	.6	.05	.05	---	---	.15	.25	.25	---	.15
Co. Therm Expand m/m/°C (10^{-5})	3.4	1.7	2.5	2.3	1.4	2.0	1.4	--	3	1.8	1.7	4.5	1.5
Dielectric Constant @ 1MHz (Dry)	3.8	3.5	3.4	3.7	3.6	3.8	3.5	3.6	3.2	4.0	3.6	4.4	4.5
Volume Resistivity ohm-cm (10^{15})	1	3.8	.1	1.0	1.0	4.5	1.0	---	5.5	.01	.01	1.0	---

* This is the estimated temperature where the integrity of the plastic body will be challenged by the heat transferred through the terminal to the plastic body.

** All plastic materials listed in this catalog are formulated to have an Underwriter's Laboratory flammability rating of UL 94-VO. This rating characterizes the ability of the plastic to self-extinguish under specific conditions when exposed to and then removed from an open flame.

***This table is reference only and is intended to highlight the differences between materials. Current material performance information should be obtained from the material manufacturer.

TERMINALS and SOLDERABILITY

The terminals used in this catalog meet MIL-STD-1276 with a plating thickness of 200 to 500 micro inches.

Alloy 42: Iron-Nickel alloy plated with 90%Tin, 10% Lead over copper flash.
Brass: Terminals plated with 100% Sn, or, 90%Sn/10%Pb, over nickel flash.
Copper Wire: Half hard Copper wire plated with 100% Tin.
Copper / Zinc: Copper/Zinc alloy plated with 60% Tin & 40% Lead.
Phos. Bronse: Phosphorus Bronze plated with 90%Tin & 10% Lead.

All component and toroid mounts are inspected to MIL-STD-202, Method 208 for solderability, then handled and stored to avoid transferred or airborne contamination of the terminal as described in MIL-STD-2000.

PLASTIC CERTIFICATION and TRACEABILITY

All of the plastic materials used in Lodestone Pacific toroid mounts and headers are UL Approved and traceable to the UL Recognized material manufacturer. Lodestone Pacific can provide certifications of materials based on the UL file No. for the materials as found on the materials "Yellow Card."

CUSTOM TOROID MOUNTS and HEADERS

If you need a part that you can't find in our catalog, fax us a drawing or sketch. If it is not part of our family of products, we often can tell you where to get it, or we can get it for you. If you have a custom requirement, Lodestone Pacific will help you in the design phase, then provide a tooling and a piece price quote for your specific application.

WIRE TABLE

Wire Gauge (AWG)	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
Diameter (inches)															
Nominal (Single build)	.0827	.0659	.0524	.0418	.0334	.0266	. 0213	.0170	.0137	.0109	.0088	.0070	.0056	.0048	.0035
Nominal (Heavy Build)	.0838	.0675	.0539	.0431	.0346	.0276	.0223	.0178	.0144	.0116	.0095	.0075	.0060	.0049	.0038
Cross Sectional Area															
Circular mills	6530	4107	2583	1624	1022	642.4	404.0	254.1	159.8	100.5	63.2	39.8	25.0	17.7	9.89
Amperes															
1mA/circular mills	6.54	4.11	2.59	1.62	1.03	0.640	0.400	0.255	0.160	0.100	0.064	0.040	0.025	0.016	0.010
Resistance (ohms/1K ft. 20°C)															
Nominal	1.589	2.524	4.019	6.388	10.13	16.20	25.67	41.02	65.33	103.7	162.0	261.3	414.8	648.2	1079

CONNECTION INTEGRITY

THROUGH HOLE: Magnetic devices are a relatively heavy component on a circuit board and therefore the mechanical characteristics of the solder connection are as important as its electrical integrity. Whether using a fixed terminal or the wound component's lead to self lead (**Figure 1**), the solder connection is critical. Printed circuit boards with unplated through holes may require a clinched terminal as described in MIL-STD-2000 (**Figure 2**). This will avoid stresses that contribute to an intermittent or failed connection. Printed circuit boards with plated holes offer good mechanical integrity without clinching, providing a successful intermetallic bond is created during the board solder process (**Figures 1 & 3**). Through hole diameter in relation to terminal diameter is also important to connection integrity. The recommended printed circuit board hole clearance should be no less than .006 inches but no more than .028 inches. This will facilitate the flow of solder to both ends of a plated through hole and allow the outgassing of contaminates that will interfere with a strong intermetallic bond.

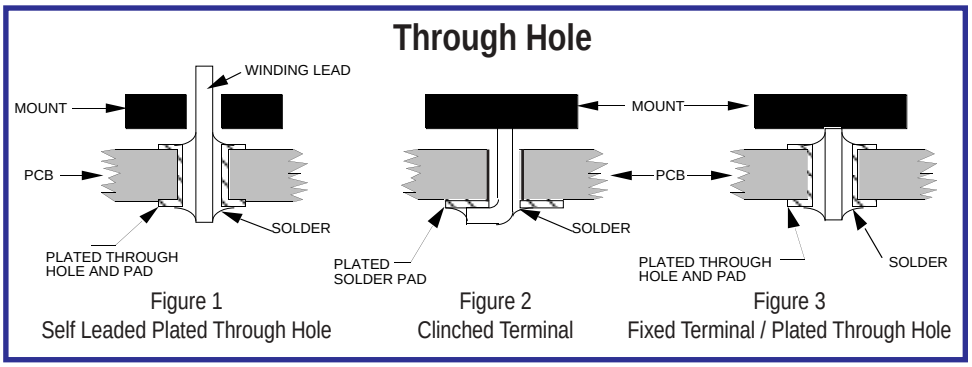


Figure 1 Self Leaded Plated Through Hole

Figure 2 Clinched Terminal

Figure 3 Fixed Terminal / Plated Through Hole

SURFACE MOUNT: A toroid mount is essential to mounting a wound toroid to a circuit board using surface mount technology. The most widely used surface mount termination styles are either gull wing (**Figure 4**) or "J" lead (**Figure 5**). The gull wing style is widely used because it is relatively inexpensive to mold into the plastic body and to bend into position. The gull wings are somewhat flexible, which allows them to absorb the strain of thermal expansion and contraction. It is also easier to visually inspect the gull wing solder connection. The "J" lead also has wide acceptance because it uses up less board real estate than the gull wing and can absorb the strain of thermal expansion. However, the "J" lead to board solder connections are hidden from inspection and the leads are more difficult to form, making them more expensive. New surface mount techniques are being introduced to the industry constantly. One style is the "Lunar Lander" (**Figure 6**). The "Lunar Lander" incorporates a round lead style that is more rigidly supported by the plastic molding. This style is very robust and will tolerate handling and shipping with little or no effect on the co-planarity. It is not flexible with thermal expansion and is harder to visually inspect, but it uses little extra board real estate. Self leaded surface mount components have become popular. This technique uses the wound components leads, positioned by the toroid mount, to make the solder connection. For more information on toroid mount technology, visit our Web Site at **www.lodestonepacific.com.**

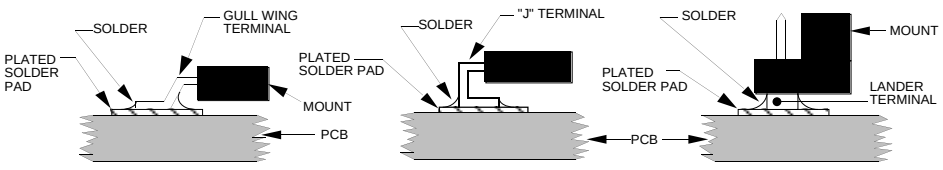


Figure 4 Gull Wing

Figure 5 "J" Lead

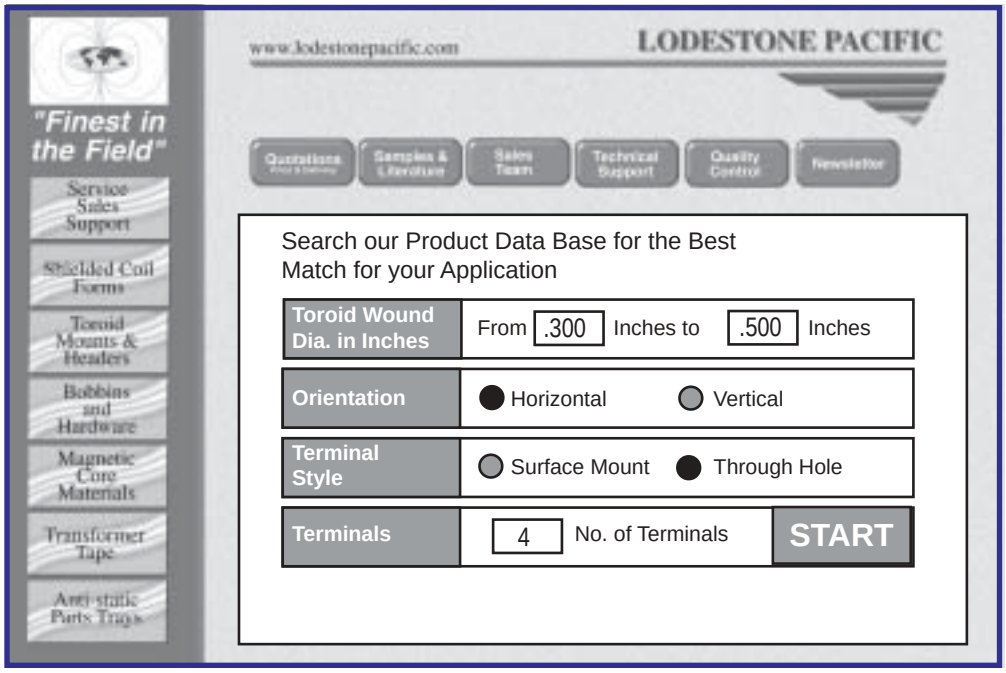
Figure 6 Lunar Lander

TOROID MOUNT SELECTION
Use Our Web Page
· Data Base Search Tool

With over 300 styles to choose from, which is the best toroid mount for your application? Go to our Web Site at **www.lodestonepacific.com**, click on Toroid Mounts and Headers, then select the "Toroid Mount Selector."

Answer the questions about your application, and the Selector will search our product database for the best products for your application. You can request samples and a quote, then download the drawing. It's easy, and for engineers, fun.

The Product Index on the facing page is also a useful tool. It lists Mounts and Headers by the Largest Practical Wound Diamerter that will fit.



SURFACE MOUNT

Shape Code
STM = Surface Toroid Mount
SMD = Surface Mount Device
SMRF = Surface Mount for RF

STM 560 - 4

Approximate Size
(Hundredths of inches)
No. of Terminals

Sorted by the MaximumWound Toroid Diameter to fit the Mount

Part No.	Page	Max Dia.
STM106-6	2	.106 [2.69]
STM152-6	2	.150 [3.81]
SMRF150-06	2	.150 [3.81]
SMD165-6	3	.165 [4.19]
SMD165-8	3	.165 [4.19]
SMD165-16	4	.165 [4.19]
STM180-08/100	4	.190 [4.83]
STM180-08/295	4	.190 [4.83]
STM190-06	5	.190 [4.83]
SMD193-16	5	.193 [4.90]
STM198-06	5	.200 [5.08]
SMD200-14	6	.200 [5.08]
SMD200-20	6	.200 [5.08]
STM205-02	6	.205 [5.20]
STM240-6	7	.240 [6.09]
STM255-4	7	.255 [6.47]
SMRF258-4	8	.258 [6.55]
SMRF258-6	8	.258 [6.55]
STM260-4	8	.260 [6.60]
STM261-12	9	.260 [6.60]
STM270-06	10	.260 [6.60]
SMD266-16	10	.266 [6.74]
SMD266-24	10	.266 [6.74]
STM20LC-02	18	.270 [6.83]
STM302-2	18	.270 [6.85]
STM302-2/A	18	.270 [6.85]
STM302-4	12	.270 [6.85]
STM280-8	11	.280 [7.11]
STM285-2	11	.285 [7.24]
STM300-8	11	.300 [7.62]
STM305-04	12	.300 [7.62]
STM303-04/110	12	.310 [7.87]
STM303-04/175	12	.310 [7.87]
STM360-4	14	.320 [8.13]
STM338-2	13	.338 [8.60]
STM350-24	13	.348 [8.83]
STM365-6	14	.360 [9.14]
STM372-2	18	.370 [9.39]
STM30LC-02	18	.375 [9.52]
STM375-8	15	.375 [9.52]
STM385-04	15	.390 [9.90]
STM395-14	16	.395 [10.0]
STM390-8	15	.400 [10.1]
STM37CS-06	14	.405 [10.3]
STM403-04/190	17	.410 [10.4]
SMD430-24	17	.430 [10.9]
STM40LCC-04	16	.440 [11.2]
STM460-4	21	.445 [11.3]
STM502-2	18	.445 [11.3]
STM40LC-02	16	.450 [11.4]
STM453-04/195	21	.460 [11.7]
STM37LCC-04	19	.485 [12.3]
STM44-4	17	.485 [12.3]
STM37LC-02	18	.490 [12.4]
STM37HC-02	20	.500 [12.7]
STM44LC-02	18	.530 [13.5]
STM44LCC-04	19	.530 [13.5]
STM602-2	18	.530 [13.5]
STM560-4	21	.560 [14.2]
STM560-6	22	.560 [14.2]
STM44HC-02	20	.580 [14.7]
STM581-8	22	.581 [14.7]
STM581-12	22	.581 [14.7]
STM44HCC-04	20	.600 [15.2]
STM50LCC-04	19	.605 [15.4]
STM50LC-02	18	.610 [15.5]
STM50HC-02	20	.650 [16.5]
STM50HCC-04	20	.680 [17.3]
STM68HC-02	20	.840 [21.3]
STM68HCC-04	20	.880 [22.3]
STM880-8	23	.880 [22.3]
STM80HCC-04	23	.890 [22.5]

HORIZONTAL

Shape Code
DIP= Dual-in-Line Package
TM =Toroid Mount
TR = Toroid Retainer
HTC = Horizontal Toroid Cup
HTM = Horizontal Toroid Mount
TCM =Toroid Common Mode

TM 401 - 4

Approximate Size
(Hundredths of Inches)
No. of Terminals

Sorted by the MaximumWound Toroid Diameter to fit the Mount

Part No.	Page	Max Dia.
DIP165-6	24	.165 [4.19]
DIP165-8	24	.165 [4.19]
DIP165-16	24	.165 [4.19]
TM252-4	25	.197 [5.00]
TM200-4	25	.200 [5.08]
TM305-06	26	.305 [7.75]
TM401-3	27	.320 [8.13]
TM401-4	27	.320 [8.13]
TM401-5	27	.320 [8.13]
TM401-6	27	.320 [8.13]
TM402-6	27	.320 [8.13]
TM380-5	26	.340 [8.64]
TM400-8	26	.400 [10.2]
TM507-4	30	.400 [10.2]
DIP430-24	27	.438 [11.1]
TM460-4	28	.445 [11.3]
TM450-6	28	.450 [11.4]
TM470-4	28	.470 [12.0]
TM475-8	29	.470 [12.0]
HTC490-0	29	.490 [12.4]
HTC490-4	29	.490 [12.4]
HTM460-6	31	.500 [12.7]
HTM461-6	31	.500 [12.7]
TM505-010	30	.500 [12.7]
TM501-4	29	.538 [13.7]
TM501-6	29	.538 [13.7]
TM550-8	30	.550 [14.0]
HTC583-0	31	.602 [15.3]
HTC583-4	31	.602 [15.3]
HTC584-4	31	.600 [15.2]
HTM600-6	31	.750 [19.1]
HTM601-6	31	.750 [19.1]
HTC764-0	31	.819 [20.8]
HTC764-4	31	.819 [20.8]
TR60-B	33	.900 [22.9]
HTC965-0	31	.972 [24.7]
HTC965-4	31	.972 [24.7]
HTM850-6	31	1.00 [25.4]
HTM851-6	31	1.00 [25.4]
TCM100-04	35	1.00 [25.4]
HTC1208-0	34	1.19 [30.2]
HTC1208-4	34	1.19 [30.2]
TCM120-04	35	1.20 [30.5]
TR80-B	33	1.20 [30.5]
TR100-B	33	1.50 [38.1]
HTC1500-0	34	1.53 [39.0]
HTC1500-4	34	1.53 [39.0]
TCM170-04	35	1.70 [43.2]
TR130-A	33	1.90 [48.7]
TCM230-04	35	2.30 [58.7]
TR200-A	33	3.00 [76.2]
TR275-C	35	3.50 [88.9]
TR350-C	35	4.50 [114]
TR450-C	35	6.00 [152]

VERTICAL MOUNTS

Shape Code
VTM -Vertical Toroid Mount
VTB -Vertical Toroid Boat
TS - Toroid Spacer
VTC -Vertical Toroid Cup
KM - Klip Mount

VTM 600 - 6

Approximate Size
(Hundredths of Inches)
No. of Terminals

Sorted by the MaximumWound Toroid Diameter to fit the Mount

Part No.	Page	Max Dia.
VTM225-4	36	.225 [5.72]
VTM421-02	37	.320 [8.13]
VTM421-03	37	.320 [8.13]
VTM370-4	36	.370 [9.39]
VTM455-4	37	.455 [11.6]
KM44-01	42	.480 [12.2]
KM44-02	42	.480 [12.2]
VTC512-4	43	.520 [13.2]
KM50-01	42	.550 [14.0]
KM50-02	42	.550 [14.0]
VTM555-4	37	.555 [14.1]
VTM590-3	38	.590 [15.0]
VTM620-2	38	.590 [15.0]
VTM600-6	38	.600 [15.2]
VTC613-0	43	.630 [16.0]
VTC613-4	43	.630 [16.0]
VTC613-6	43	.630 [16.0]
VTC613-8	43	.630 [16.0]
VTM650-6	39	.650 [16.5]
KM68-01	42	.730 [18.5]
KM68-02	42	.730 [18.5]
VTM800-08	39	.785 [19.9]
VTC774-0	43	.790 [20.0]
VTC774-4	43	.790 [20.0]
VTM681-4	39	.812 [20.2]
KM80-01	42	.850 [21.6]
KM80-02	42	.850 [21.6]
VTB700-04	45	.850 [21.6]
VTB800-02	45	.880 [22.4]
VTM880-10	40	.880 [22.4]
VTC935-0	43	.950 [24.1]
VTC935-4	43	.950 [24.1]
VTM955-4	40	.955 [24.3]
VTM1020-10	40	1.02 [25.9]
VTM1060-08	44	1.04 [26.4]
VTM1050-10	44	1.05 [26.7]
VTB900-02	45	1.05 [26.7]
VTB1090-04	45	1.10 [27.9]
VTB1100-03	45	1.10 [27.9]
VTM100-0	41	1.15 [29.2]
VTM100-4	41	1.15 [29.2]
KM106-01	42	1.15 [29.2]
KM106-02	42	1.15 [29.2]
VTC1156-0	43	1.18 [30.0]
VTC1156-4	43	1.18 [30.0]
VTM120-0	42	1.20 [30.5]
VTM120-0/035	42	1.20 [30.5]
VTM120-0/060	42	1.20 [30.5]
VTM120-0/067	42	1.20 [30.5]
VTM120-0/079	42	1.20 [30.5]
VTM120-0/RYN	42	1.20 [30.5]
VTM120-4	42	1.20 [30.5]
VTM120-4/RYN	42	1.20 [30.5]
VTM1220-10	40	1.22 [31.0]
VTC1227-0	43	1.30 [33.0]
VTC1227-4	43	1.30 [33.0]
VTM1300-14	44	.130 [33.0]
VTB1200-012	45	1.40 [35.6]
VTB1350-04	45	1.50 [38.1]
VTC1468-0	43	1.55 [39.5]
VTC1468-4	43	1.55 [39.5]
VTM160-0	42	1.60 [40.6]
VTM160-0/067	42	1.60 [40.6]
VTM160-0/082	42	1.60 [40.6]
VTM160-0/089	42	1.60 [40.6]
VTM160-4	42	1.60 [40.6]
VTB1850-04	45	2.10 [53.3]
VTB2050-0X	45	2.20 [55.9]
VTB2200-04	45	2.40 [61.0]
VTM254-0	42	2.54 [64.5]
VTM254-0/060	42	2.54 [64.5]
VTM254-0/067	42	2.54 [64.5]
VTM254-0/082	42	2.54 [64.5]
VTM254-0/089	42	2.54 [64.5]
VTM254-4	42	2.54 [64.5]
VTM280-0	42	2.80 [71.1]
VTM280-4	42	2.80 [71.1]

Cups and Covers on Page 9
TS (Toroid Spacers) Page 41

STM106-6

Material: Diallyl Phthalate (Black)

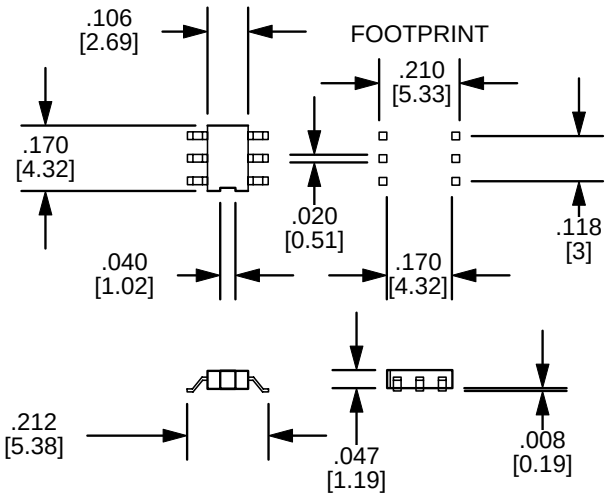
Rating: UL94-VO

6 Terminals: Alloy 42 Leadframe .008 x .020 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For gull wing surface mount of wound toroids and balun cores up to .106 inches in diameter or .170 inches long.



± .010 inches
[mm] 2X Size

STM152-6

Material: Epoxy (Black)

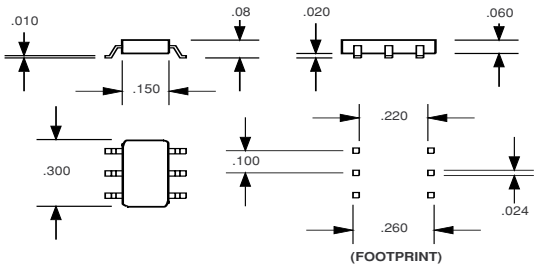
Rating: UL 94-VO

6 Terminals: Alloy 42 .024 x .010 Lead Frame 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For gull wing surface mounting of components and toroids up to .150 inches in diameter.



± .010 inches
[mm] 2X Size

SMRF155-5

NEW

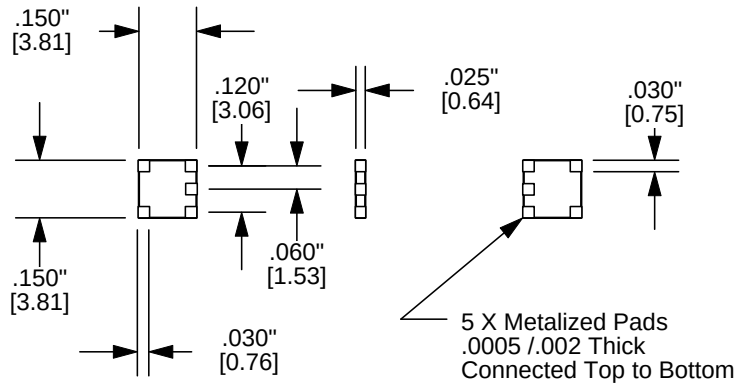
Material: Alumina Al_2O_3 >93% (White)

5 Terminals: Nickel, Gold Plated

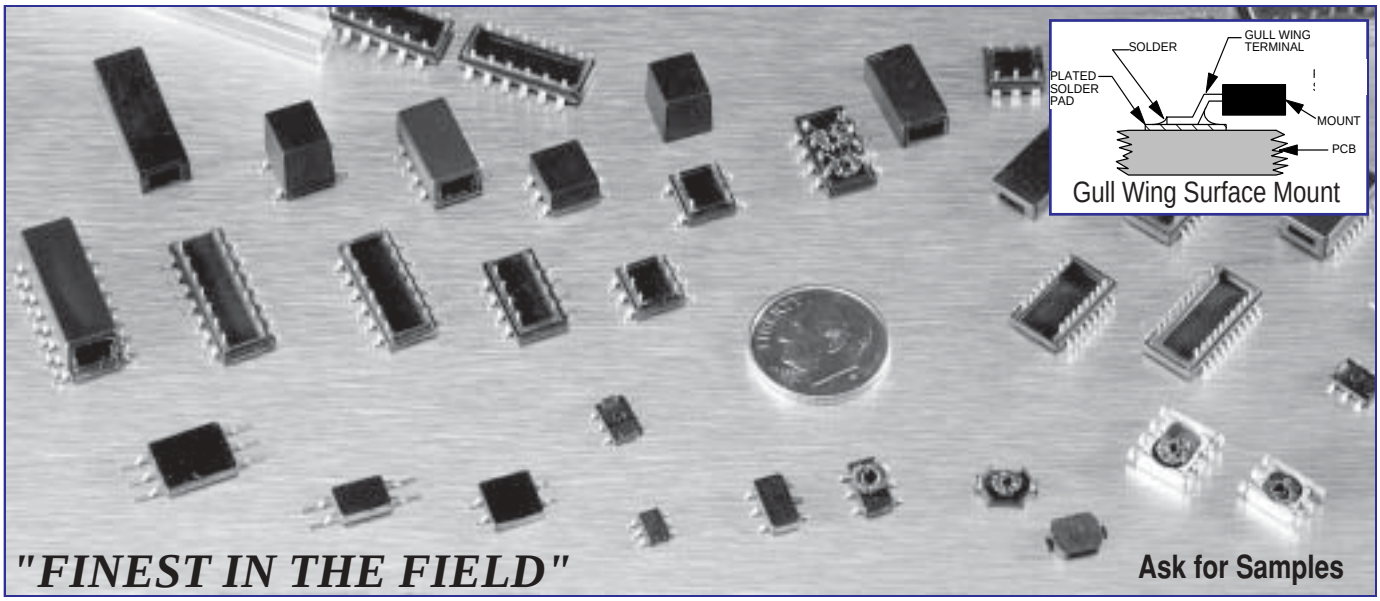
Solderability: Per MIL-STD-202 Method 208

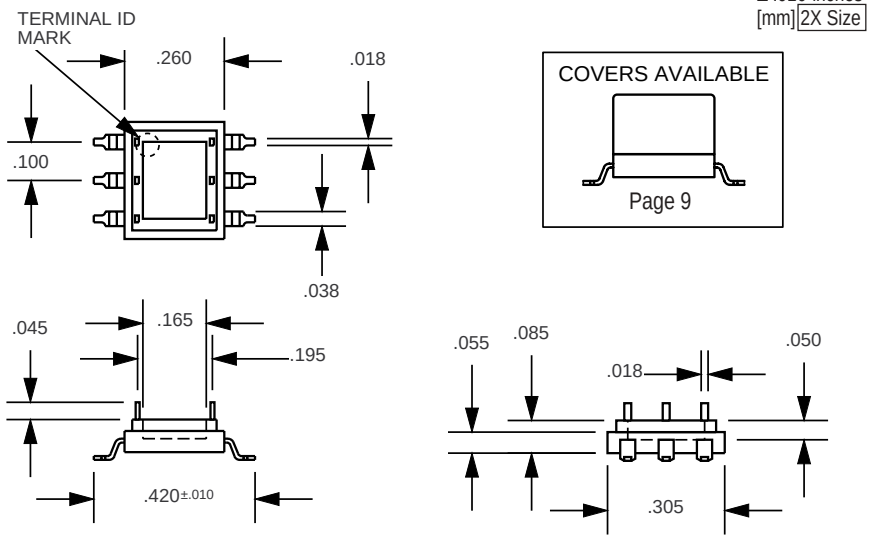
Packaging Tray: TY50x50-A

Application: For Radio Frequency transformer and inductor applications requiring low dielectric loss. Ideal for small toroids or balun cores.



± .010 inches
[mm] 2X Size

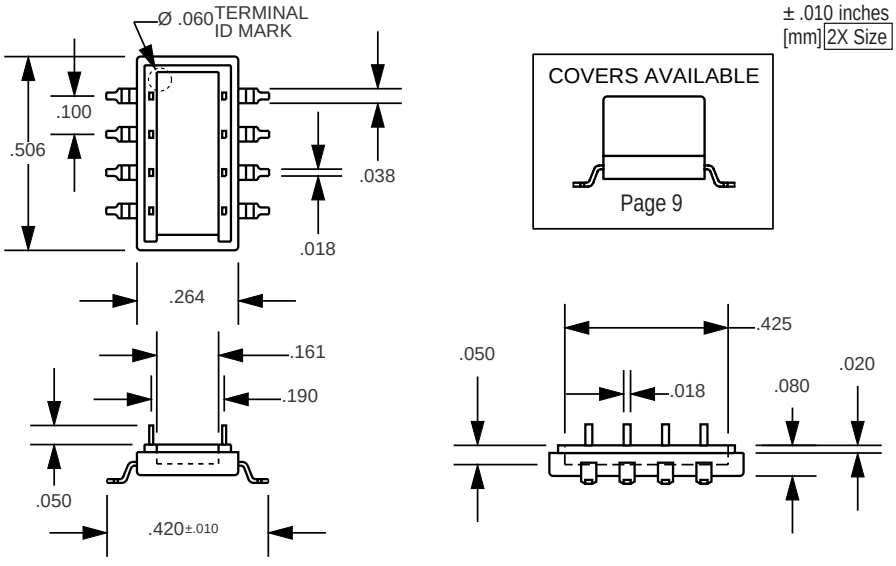




SMD165-6

Material:	Diallyl Phthalate (Black)
Rating:	UL94-VO
6 Terminals:	Alloy 42 Leadframe 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY50x50-A

Application: Gull wing surface mount version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



SMD165-8

Material:	Diallyl Phthalate (Black)
Rating:	UL94-VO
8 Terminals:	Alloy 42 Leadframe 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY50x50-A

Application: Gull wing surface mount version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.

SMD165-16

Material: Diallyl Phthalate (Black)

Rating: UL94-VO

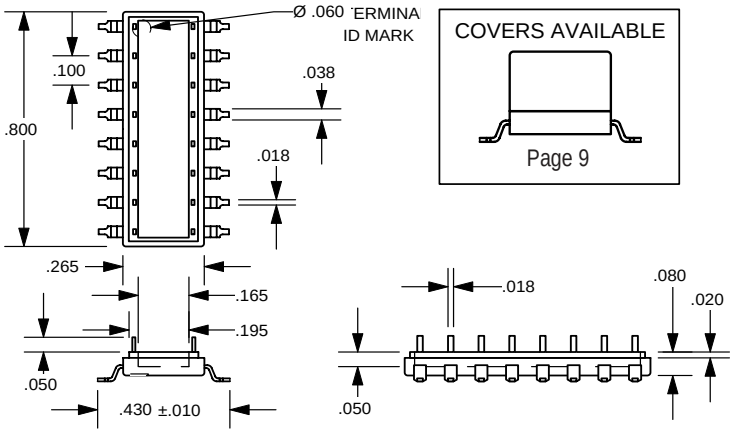
16 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: Gull wing surface mount version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.

± .010 inches
[mm] 2X Size



STM180-08/100

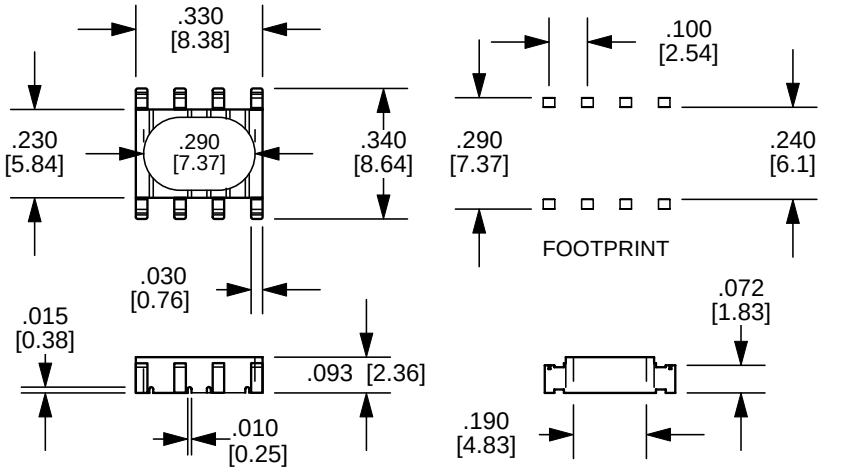
Material: LCP (Natural)

Rating: UL94-VO

8 Terminals: Self Leading

Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .190 and a max height of .093 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the PCB during infrared solder reflow. Co-planarity is dependant on the quality of the tinned wire wrap on the tabs. This "Shasta" style is a Pulse Engineering design.



± .010 inches
[mm] 2X Size

STM180-08/295

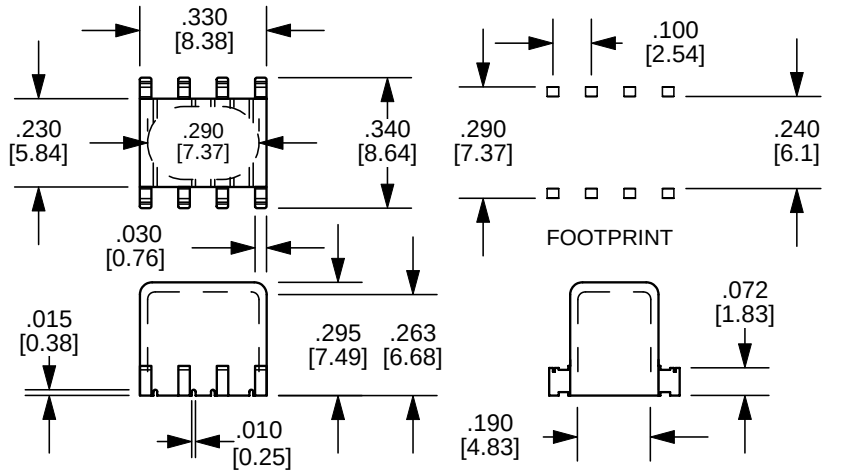
Material: LCP(Natural)

Rating: UL94-VO

8 Terminals: Self Leading

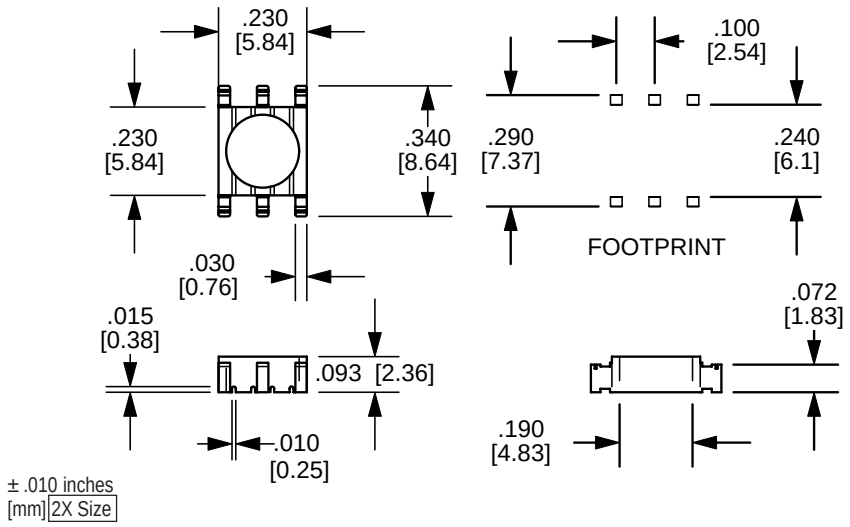
Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .190 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the PCB during infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. Ideal for automatic pick and place. This "High Shasta" style is a Pulse Engineering design.



± .010 inches
[mm] 2X Size

SURFACE MOUNT

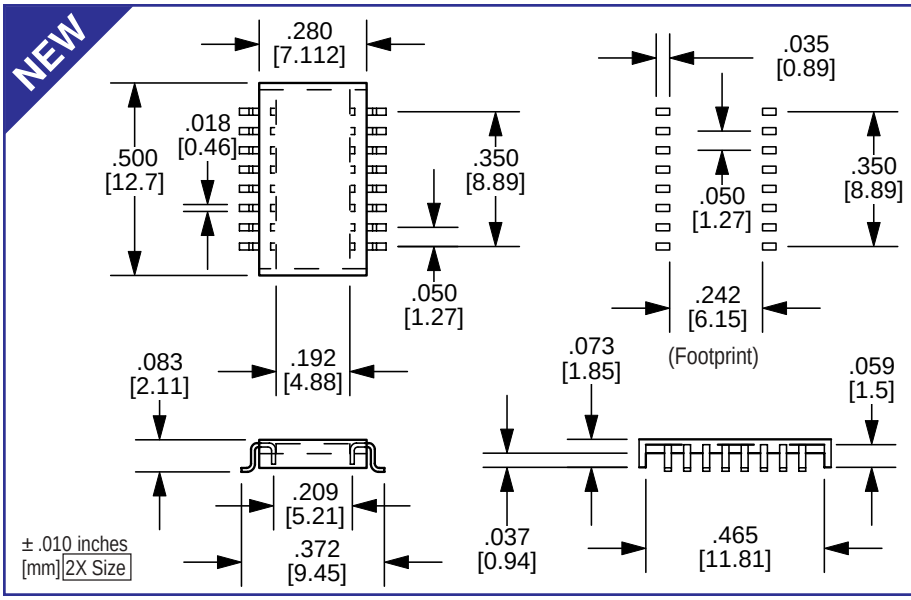


STM190-06

Material: LCP (Natural)
Rating: UL94-VO
6 Terminals: Self Leading
Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .190 and a max height of .093 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the PCB during Infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. This is a Pulse Engineering design.

NEW

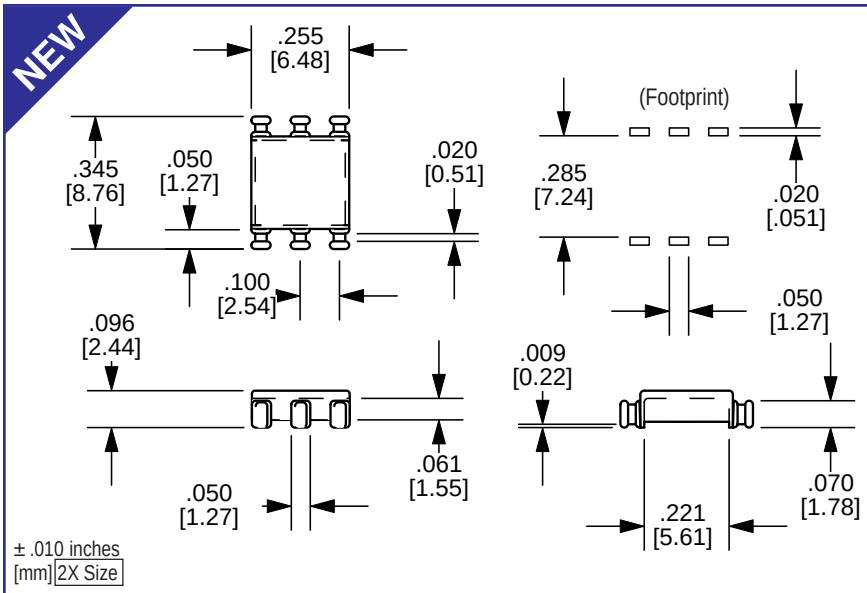


SMD193-16

Material: Diallyl Phthalate (Black)
Rating: UL94-VO
16 Terminals: Alloy 42 LeadFrame Tin Plated
Solderability: Per MIL-STD-202 Method 208
Packaging Tray: TY50x50-A

Application: Gull wing surface mount. suitable for wound toroids up to .192 inches in diameter. The toroid is mounted under the mount in a cup like recess. This product is shipped from Lodestone Pacific in anti-static shipping tubes.

NEW



STM198-06

Material: LCP (Natural)
Rating: UL94-VO
6 Terminals: Self Leading
Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .221 and a max height of .056 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the PCB during Infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs.

SMD200-14

Material: Diallyl Phthalate (Black)

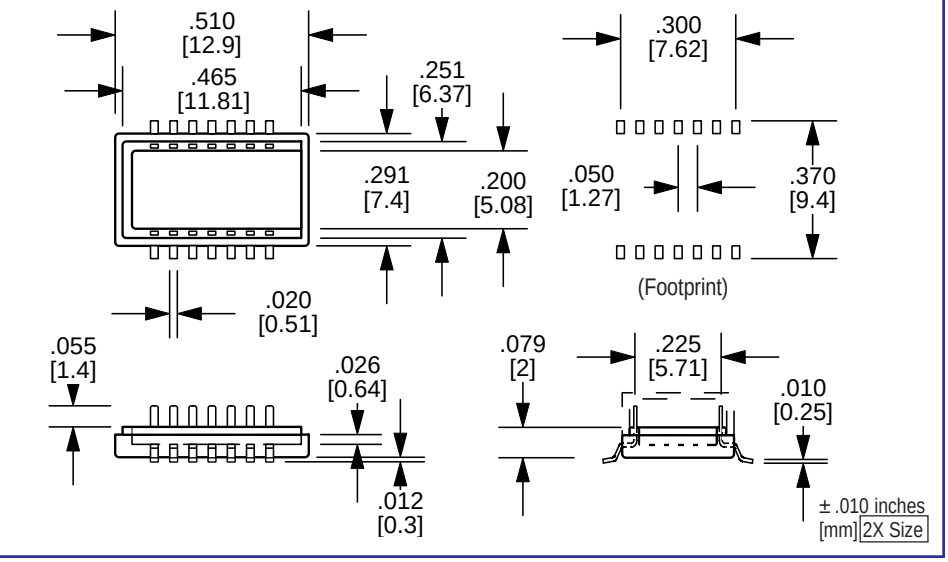
Rating: UL94-VO

14 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: Gull wing surface mount version of the "dual-in-line" package but with .050 terminal spacing. Suitable for wound toroids up to .200 inches in dia. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



SMD200-20

Material: Diallyl Phthalate (Black)

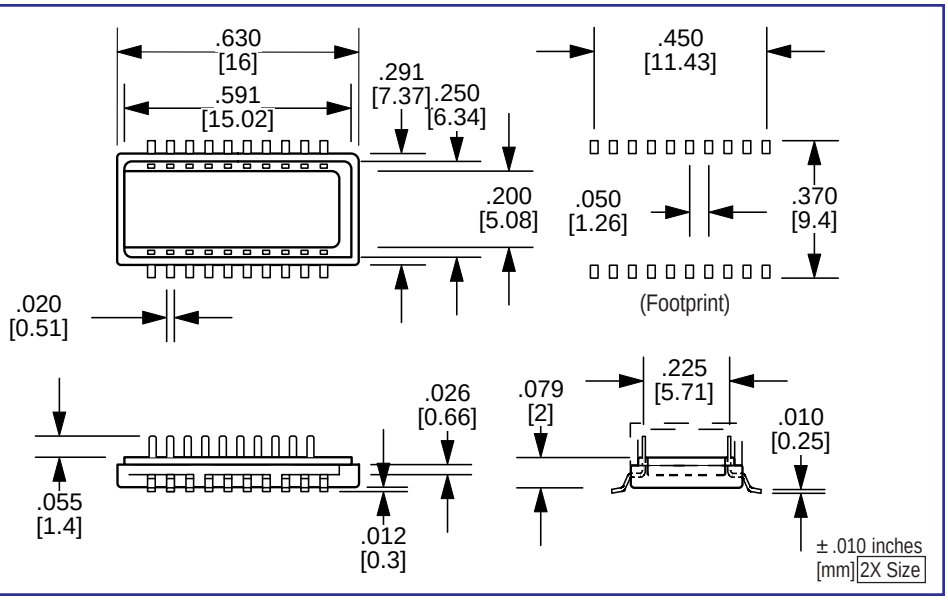
Rating: UL94-VO

20 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: Gull wing surface mount version of the "dual-in-line" package but with .050 terminal spacing. Suitable for wound toroids up to .200 inches in dia. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



STM205-02

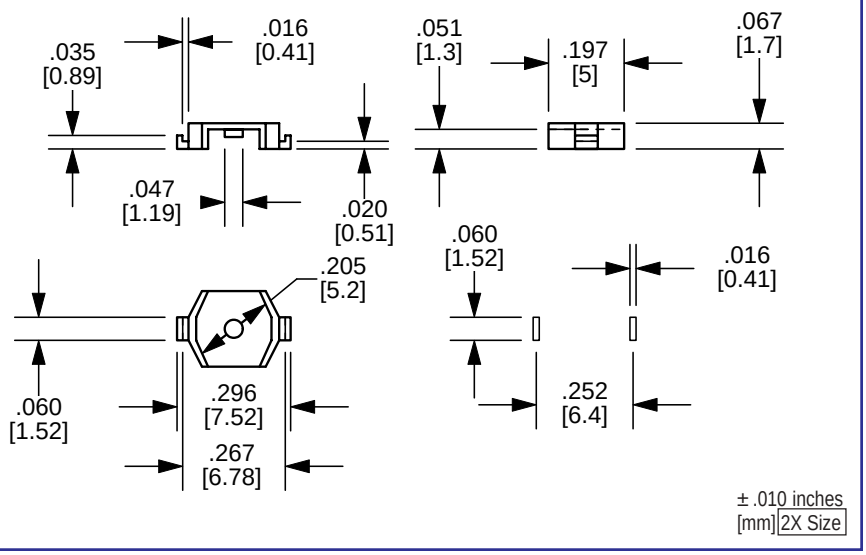
Material: LCP (Black)

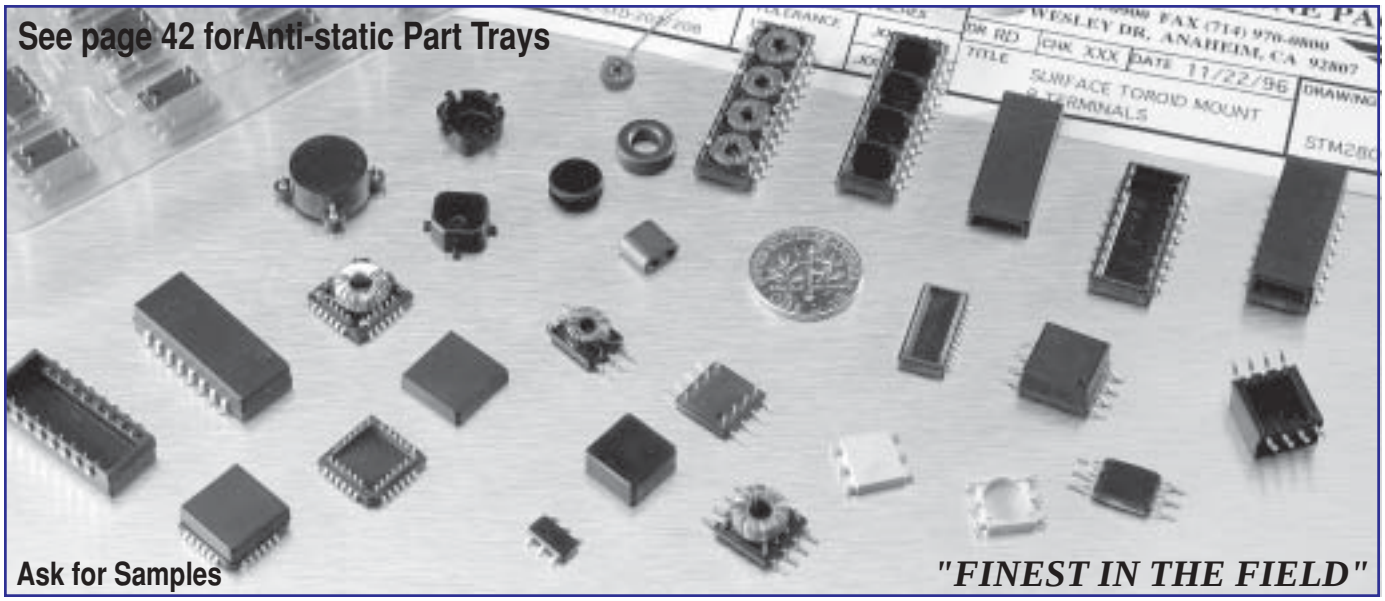
Rating: UL 94-VO

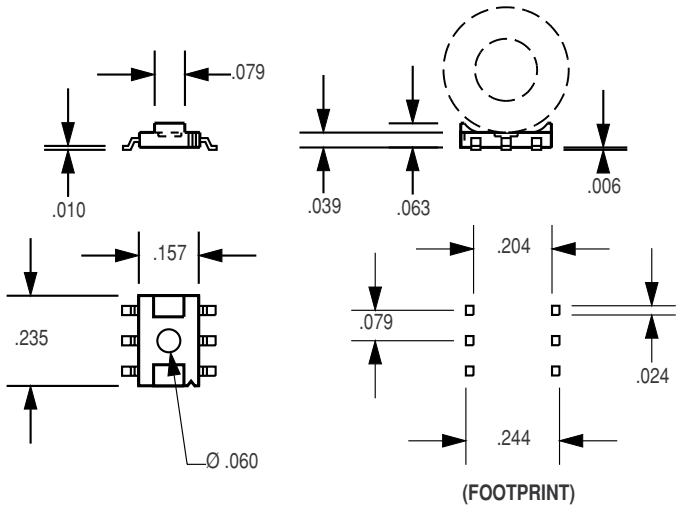
2 Terminals: Self Leading

Packaging Tray: TY50x50-A

Application: For horizontal surface mounting of wound toroids up to .205 in diameter. The toroid's tinned leads are wrapped around the molded tabs to form the surface mount terminal. Ideal for automatic pick and place.





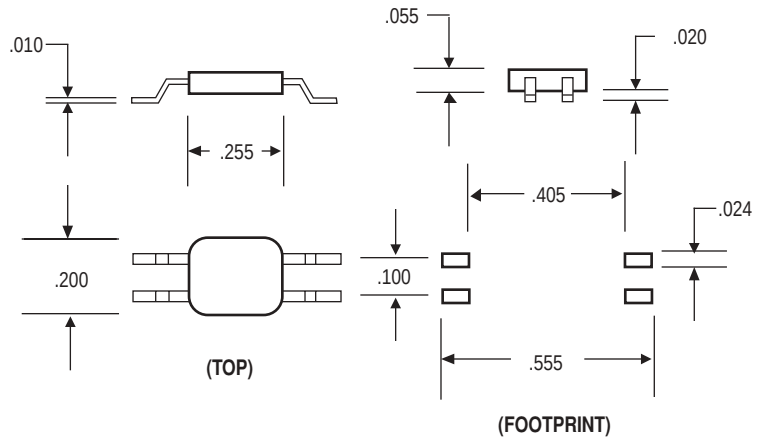


± .010 inches
[mm] 2X Size

STM240-6

Material:	Diallyl Phthalate (Black)
Rating:	UL 94-VO MIL-STD-2000
6 Terminals:	Alloy 42 .020 x .010 Lead Frame 90/10 Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY50x50-A

Application: For gull wing surface mounting of components and vertical or horizontal wound toroids up to .240 inches in diameter.



± .010 inches
[mm] 2X Size

STM255-4

Material:	Epoxy (Black)
Rating:	UL 94-VO
4 Terminals:	Alloy 42 .024 X .010 Lead Frame 90/10 Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: For gull wing surface mounting of components and wound toroids up to .255 inches in diameter.

SMRF258-4

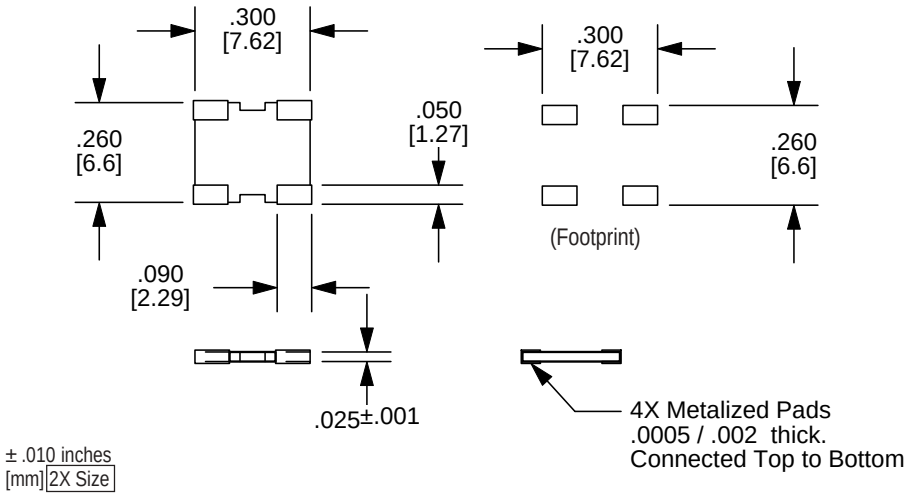
Material: Alumina Al_2O_3 >93% (White)

4 Terminals: Nickel, Gold Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For Radio Frequency transformer and inductor applications requiring low dielectric loss. Ideal for small toroids or balun cores.



SMRF258-6

NEW

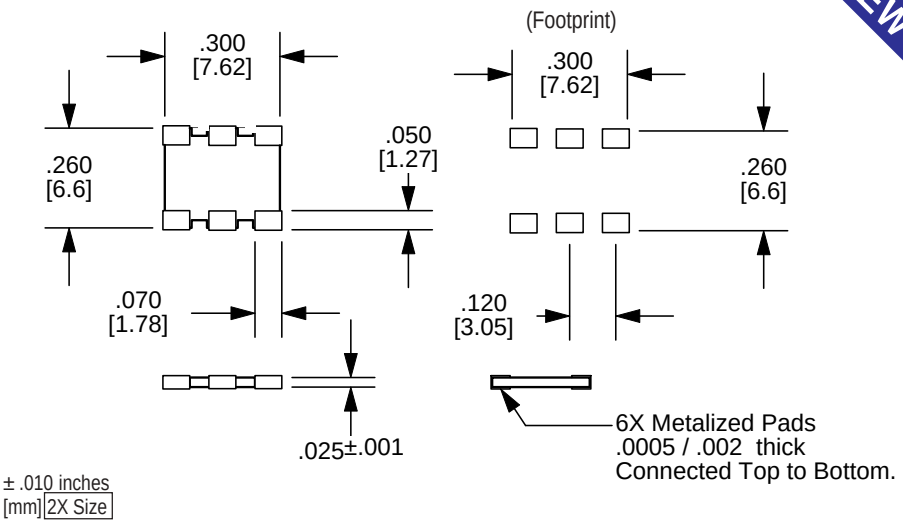
Material: Alumina Al_2O_3 >93% (White)

6 Terminals: Nickel, Gold Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For Radio Frequency transformer and inductor applications requiring low dielectric loss. Ideal for small toroids or balun cores.



STM260-4

Material: Epoxy (Black)

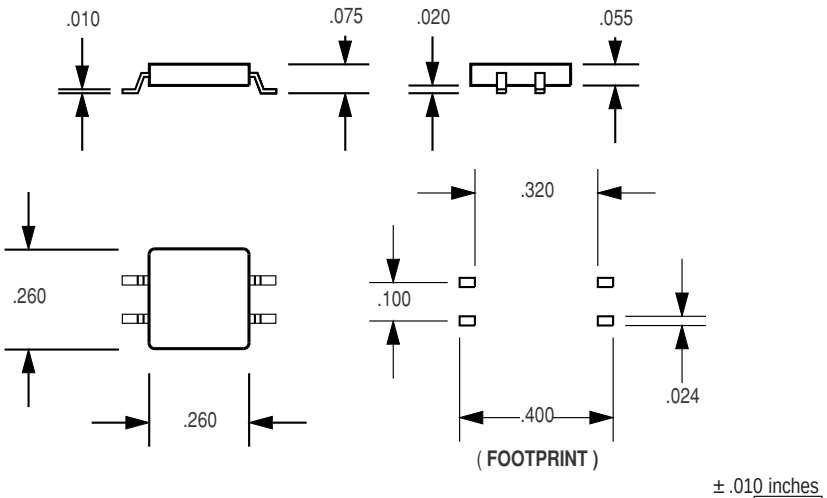
Rating: UL94-VO

4 Terminals: Alloy 42
.024 X .010
Lead Frame
90/10 Tin Plate

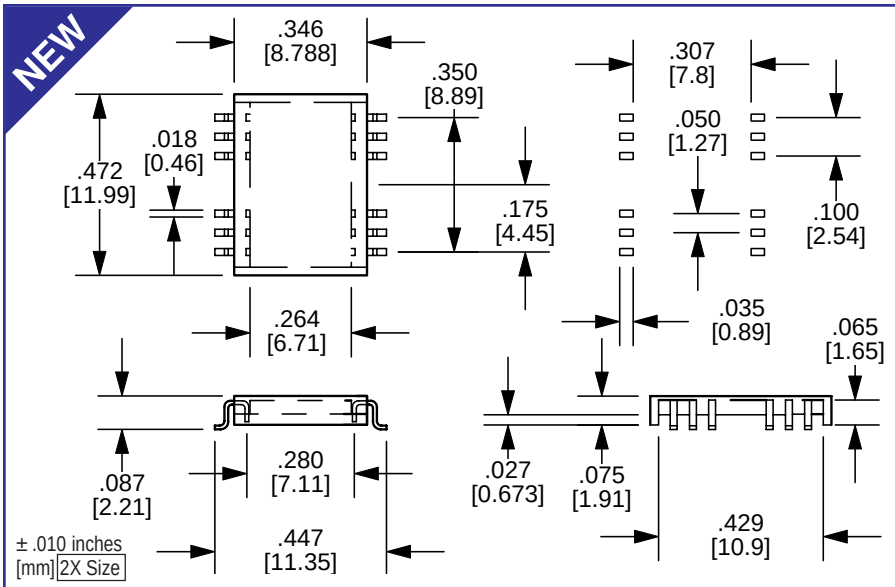
Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For gull wing surface mounting of components and wound toroids up to .260 inches in diameter.



NEW



SMD261-12

Material: Diallyl Phthalate (Black)

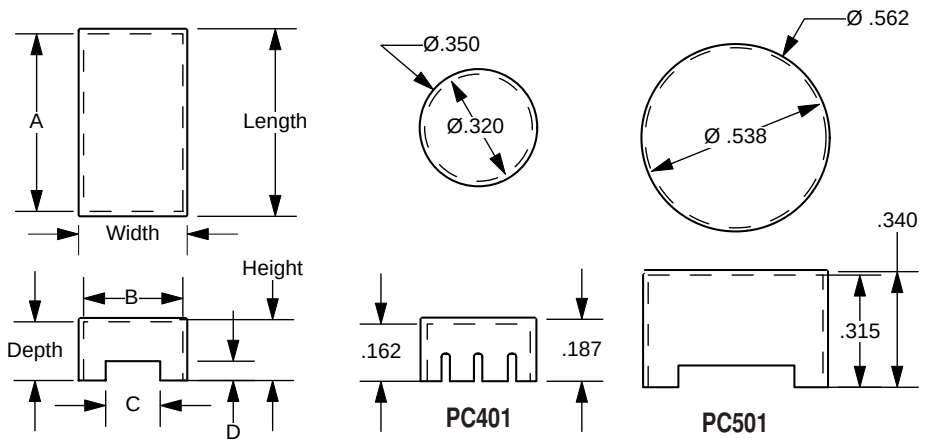
Rating: UL94-VO

12 Terminals: Alloy 42 LeadFrame Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: Gull wing surface mount. suitable for wound toroids up to .260 inches in diameter. The toroid is mounted under the mount in a cup like recess. This product is shipped from Lodestone Pacific in anti-static shipping tubes.



POTTING CUPS & COVERS

Material: Diallyl Phthalate (DAP) (Black)

Rating: UL94-VO

Application: For potting and sealing toroids and components on surface mount devices. This protects the component-to-mount connections, facilitates part number marking and automatic pick and place. All cups and covers are sold separately. Custom sizes are available.

The Cup or Cover part number will match the mount.. For example, PC280 will fit STM280-8, and STM350-24 goes with cover PC350/123. The number after the slash indicates the cup's height.

Cup Part No.	Mount No.	Length	Width	Height	Depth	A	B	C	D	Mat'l
PC165-6/**115**	SMD165-6	.305 [7.7]	.260 [6.6]	**.115 [2.9]**	.095 [2.4]	.265 [6.7]	.220 [5.6]	-----	-----	DAP
PC165-6/**160**	SMD165-6	.305 [7.7]	.260 [6.6]	**.160 [4.1]**	.140 [3.5]	.250 [6.4]	.220 [5.6]	-----	-----	DAP
PC165-6/**175**	SMD165-6	.305 [7.7]	.260 [6.6]	**.175 [4.4]**	.155 [3.9]	.265 [6.7]	.220 [5.6]	-----	-----	DAP
PC165-8/**155H**	SMD165-8	.506 [12.8]	.265 [6.7]	**.155 [3.9]**	.135 [3.4]	.466 [11.8]	.224 [5.7]	.195 [4.9]	.125 [3.2]	DAP
PC165-16/**160H**	SMD165-16	.790 [20.1]	.265 [6.7]	**.160 [4.1]**	.140 [3.5]	.750 [19.1]	.224 [5.7]	.170 [4.3]	.136 [3.4]	DAP
PC200-14/**108H**	SMD200-14	.505 [12.8]	.293 [7.4]	**.108 [2.7]**	.089 [2.2]	.467 [11.8]	.251 [6.4]	.157 [4.0]	.060 [1.5]	DAP
PC200-20/**108H**	SMD200-20	.631 [16.0]	.291 [7.4]	**.108 [2.7]**	.089 [2.2]	.593 [15.1]	.251 [6.4]	.157 [4.0]	.060 [1.5]	DAP
PC266-16/**154H**	SMD266-16	.933 [23.7]	.381 [9.7]	**.154 [3.9]**	.117 [3.0]	.880 [22.4]	.350 [8.9]	.295 [7.5]	.165 [4.2]	DAP
PC266-16/**242H**	SMD266-16	.933 [23.7]	.381 [9.7]	**.242 [6.1]**	.206 [5.2]	.880 [22.4]	.350 [8.9]	.295 [7.5]	.165 [4.2]	DAP
PC280	STM280-8	.400 [10.2]	.400 [10.2]	**.210 [5.3]**	.190 [4.8]	.365 [9.3]	.365 [9.3]	-----	-----	DAP
PC290-16/**160H**	SMD290-16	1.01 [25.6]	.392 [9.9]	**.160 [4.1]**	.120 [3.0]	.968 [24.6]	.352 [8.9]	.315 [8.0]	.120 [3.0]	DAP
PC350/**123**	STM350-24	.457 [11.6]	.457 [11.6]	**.123 [3.1]**	.103 [2.6]	.415 [10.6]	.415 [10.6]	-----	-----	DAP
PC390	STM390-8	.525 [13.3]	.475 [12.1]	**.280 [7.1]**	.250 [6.3]	.430 [10.9]	.480 [12.2]	-----	-----	DAP
PC430-24/**200H**	SMD430-24	1.27 [32.3]	.565 [14.4]	**.200 [5.1]**	.180 [4.6]	1.23 [31.3]	.531 [13.5]	.488 [12.4]	.161 [4.1]	DAP
PC581	STM581-8	.770 [19.6]	.650 [16.5]	**.280 [7.1]**	.250 [6.3]	.720 [18.3]	.600 [15.2]	-----	-----	DAP
PC581/**330**	STM581-8	.770 [19.6]	.650 [16.5]	**.330 [8.4]**	.300 [7.6]	.720 [18.3]	.600 [15.2]	-----	-----	DAP
PC880	STM880-8	.925 [23.4]	.925 [23.4]	**.365 [9.3]**	.335 [8.5]	.875 [22.2]	.875 [22.2]	-----	-----	DAP

SMD266-16

Material: Diallyl Phthalate (Black)

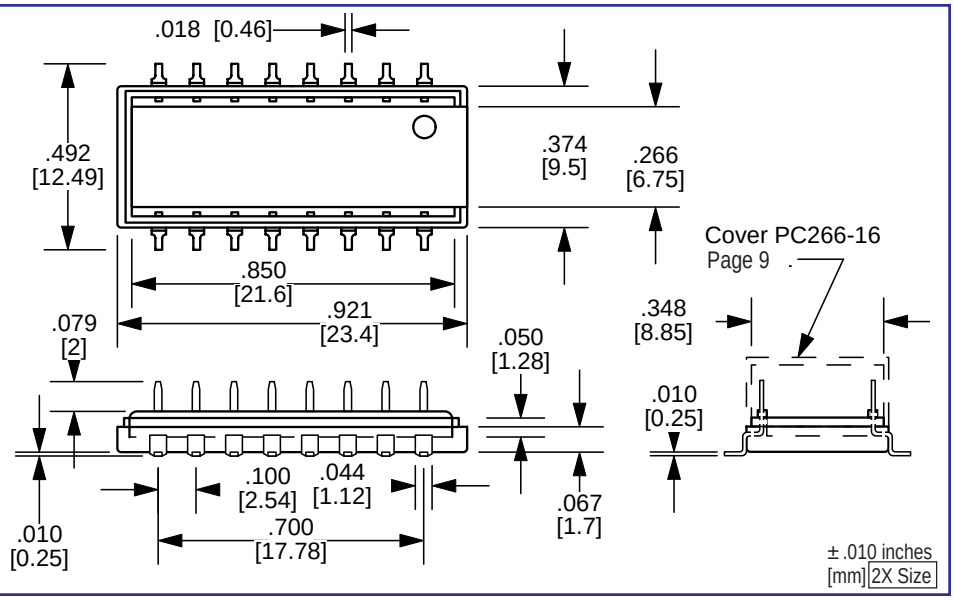
Rating: UL94-VO

16 Terminals: Alloy 42 LeadFrame Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: Gull wing surface mount. Suitable for wound toroids up to .266 inches in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



SMD266-24

Material: Diallyl Phthalate (Black)

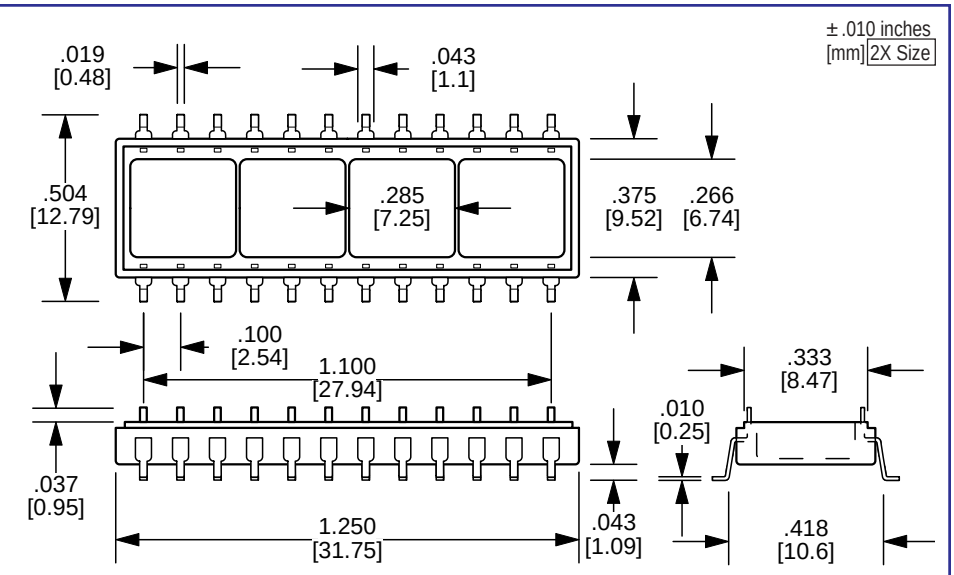
Rating: UL94-VO

24 Terminals: Alloy 42 LeadFrame Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: Gull wing surface mount. Suitable for wound toroids up to .266 inches in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



STM270-06

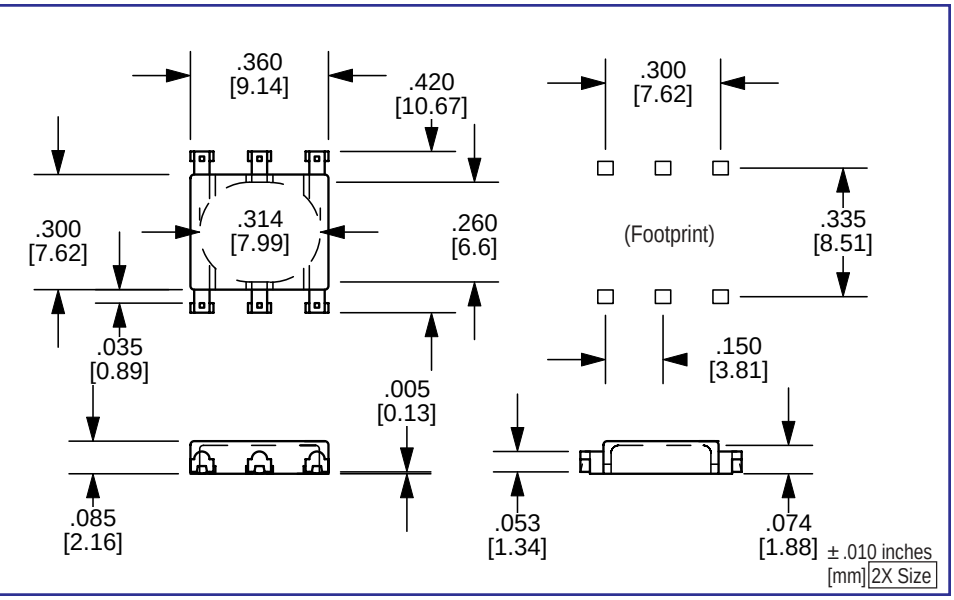
Material: LCP (Natural)

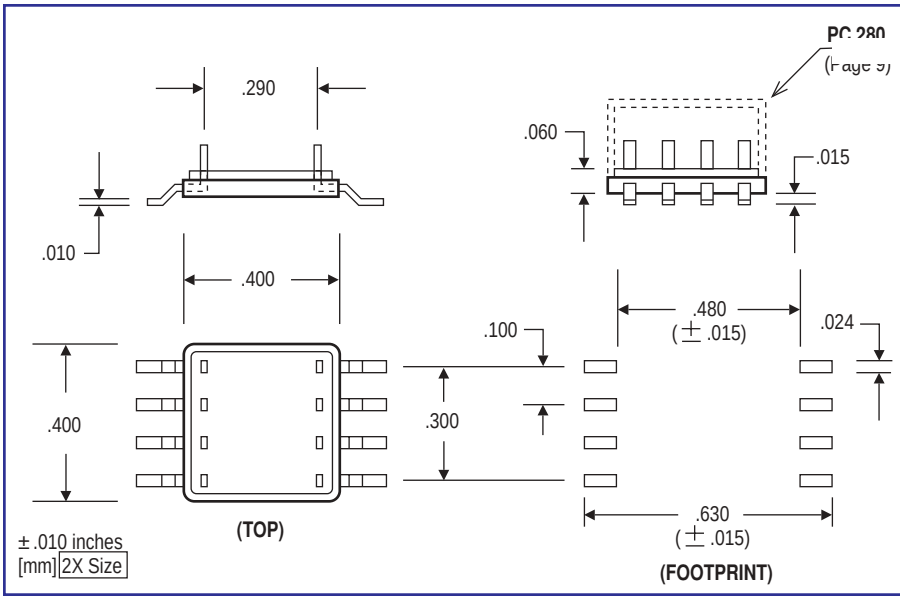
Rating: UL94-VO

6 Terminals: Self Leading

Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .260 and a max height of .070 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the PCB during infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. This is a Pulse Engineering design.



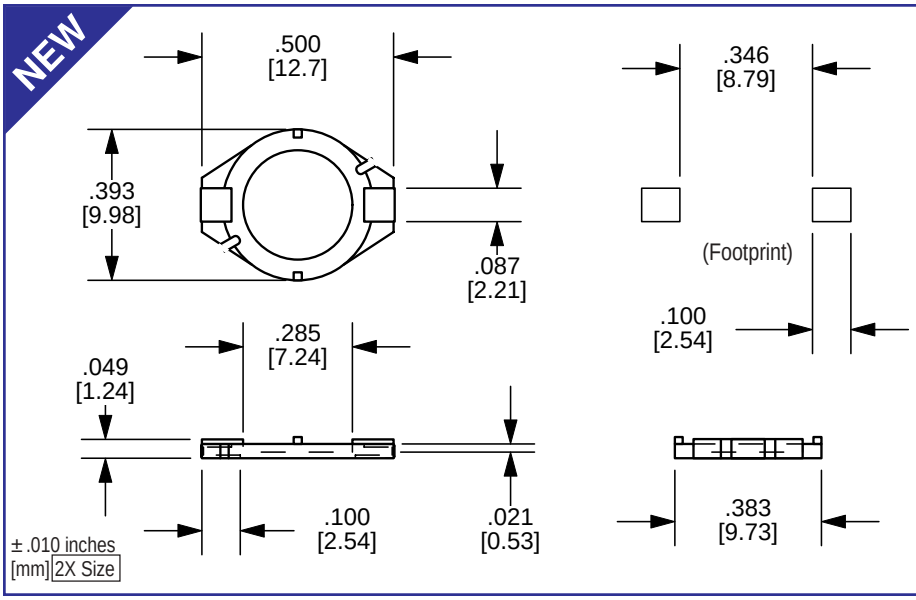


STM280-8

Material:	Diallyl Phthalate (Black)
Rating:	UL 94-VO
8 Terminals:	Alloy 42 .020 X .010 Lead Frame 90/10 Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: For surface mounting of components and wound toroids up to .280 inches in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page

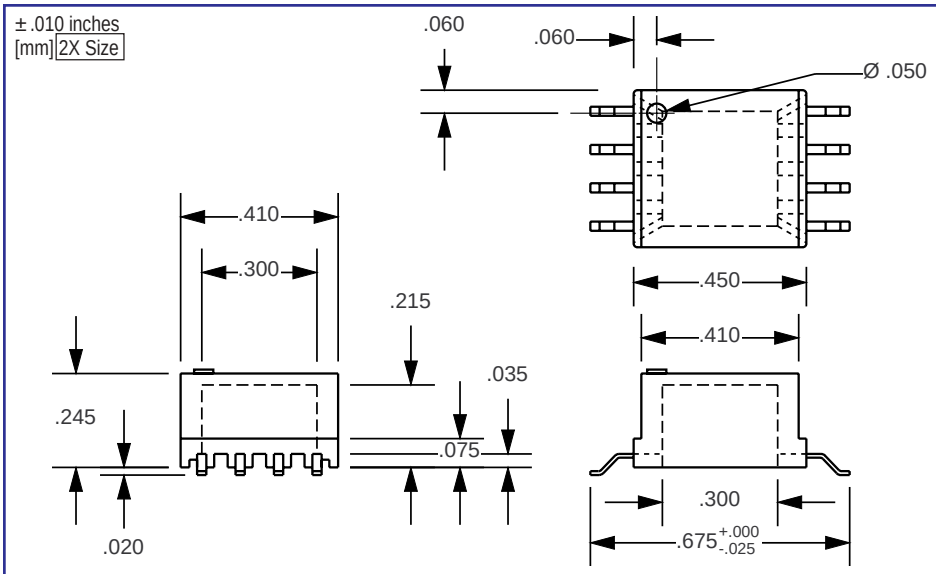
NEW



SMDR285-2

Material:	Phenolic (Black)
Rating:	UL94-VO
2Terminals:	Phosphor Bronze 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: " Designed for up to 7 mm drum syle bobbin cores. Also suitable for wound toroids up to .285 inches in diameter for inductor applications..



STM300-8

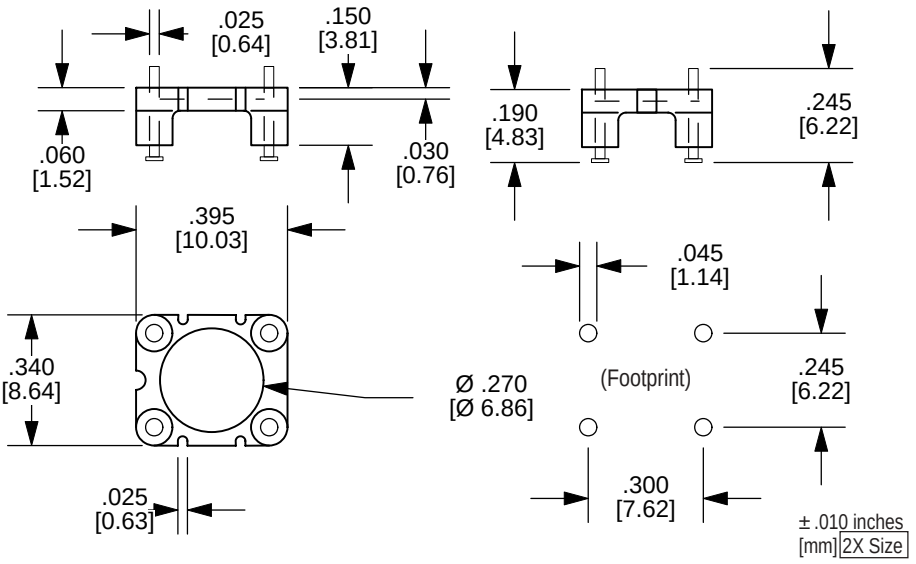
Material:	Phenolic (Black)
Rating:	UL94-VO
8 Terminals:	Alloy 42 .020 x .010 Leadframe Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: For surface horizontal mounting of components and wound toroids up to .300 inches in diameter.

STM302-4

Material: LCP (Black)
Rating: UL94-VO
4Terminals:
Solderability: Per MIL-STD-202 Method 208
Packaging Tray: TY50x50-A

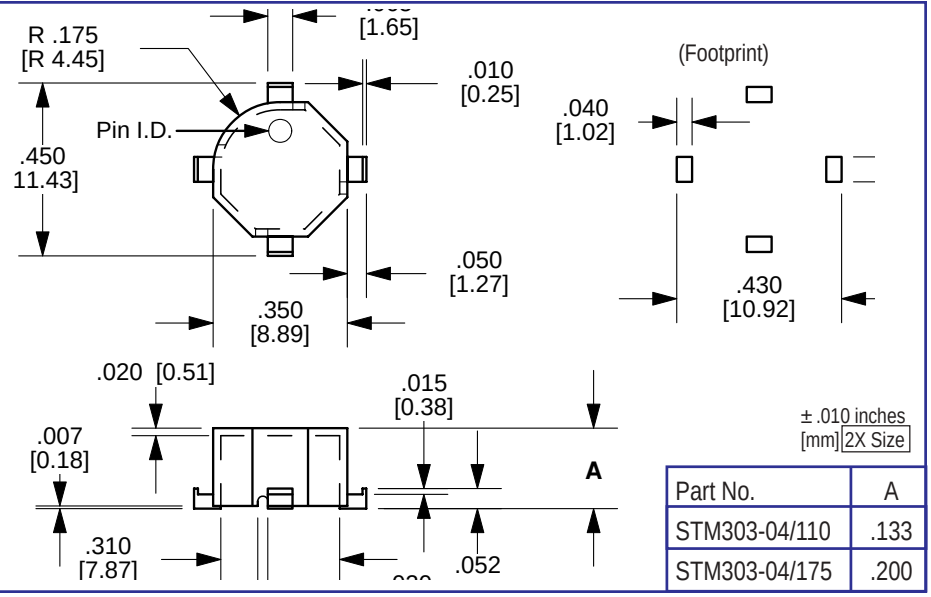
Application: For surface horizontal mounting of components and wound toroids up to .300 inches in diameter. This mount is a variation of the "Sled" series, on page 18, utilizes "Lunar Lander " terminals to create four surface mount terminations.



STM303-04/110, STM303-04/175

Material: LCP (Natural)
Rating: UL94-VO
4 Terminals: Self Leading
Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .303 inches, and .110 or .175 inches in height. The toroid leads are tinned and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the solderpaste on the printed circuit board pad during infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. Ideal for automatic pick and place.

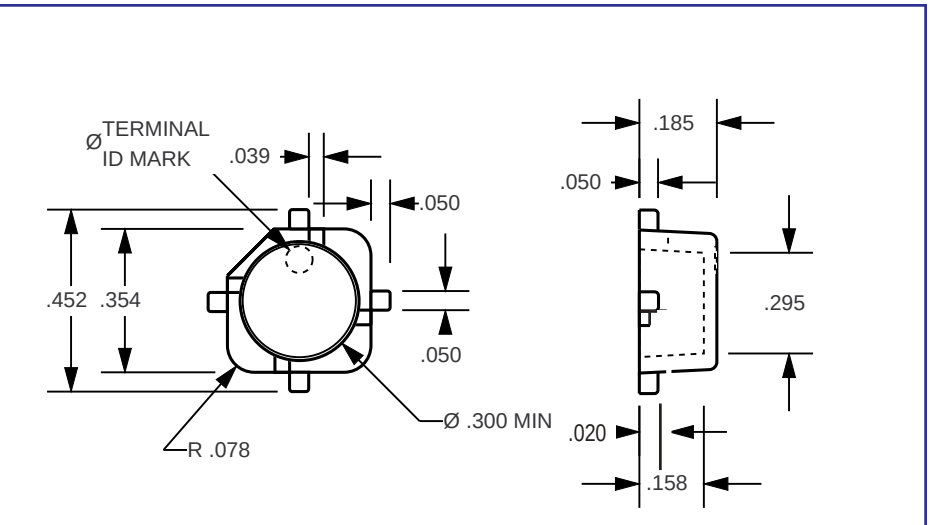


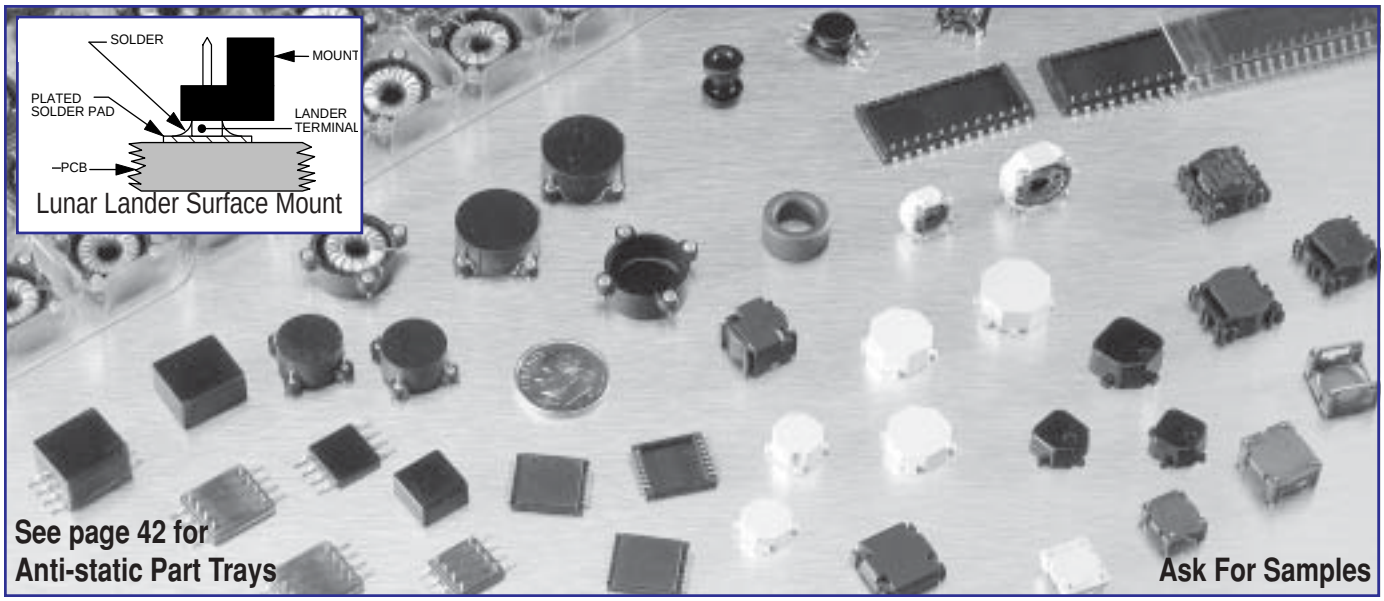
Part No.	A
STM303-04/110	.133
STM303-04/175	.200

STM305-04

Material: Phenolic (Black)
Rating: UL94-VO
4 Terminals: Self Leading
Packaging Tray: TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .305 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the solder paste on the printed circuit board pad during infrared solder reflow. Co-planarity is dependant on the quality of the tinned wire wrap on the tabs.

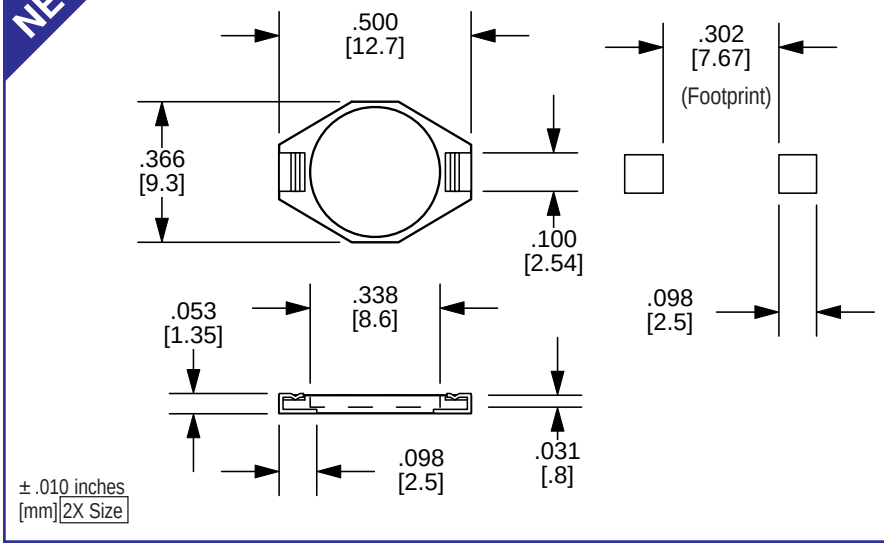




See page 42 for Anti-static Part Trays

Ask For Samples

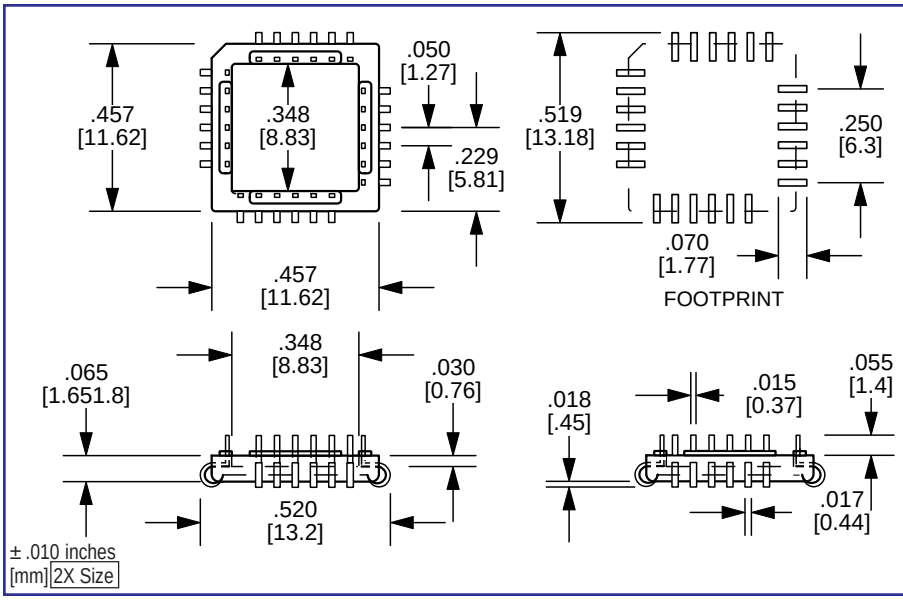
NEW



SMDR338-2

Material:	Phenolic (Black)
Rating:	UL94-VO
2Terminals:	Phosphor Bronze 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: Designed for up to 8.5 mm drum syle bobbin cores. Also suitable for wound toroids up to .338 inches in diameter for inductor applications.



STM350-24

Material:	Diallyl Phthalate (Black)
Rating:	UL94-VO
24 Terminals:	Alloy 42 Leadframe 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY74x77-A

Application: "J" Lead surface mount header. Suitable for wound toroids up to .350 inches in diameter. Encapsulation covers are available and sold separately. See page 9.

STM360-4

Material: Diallyl Phthalate (Black)

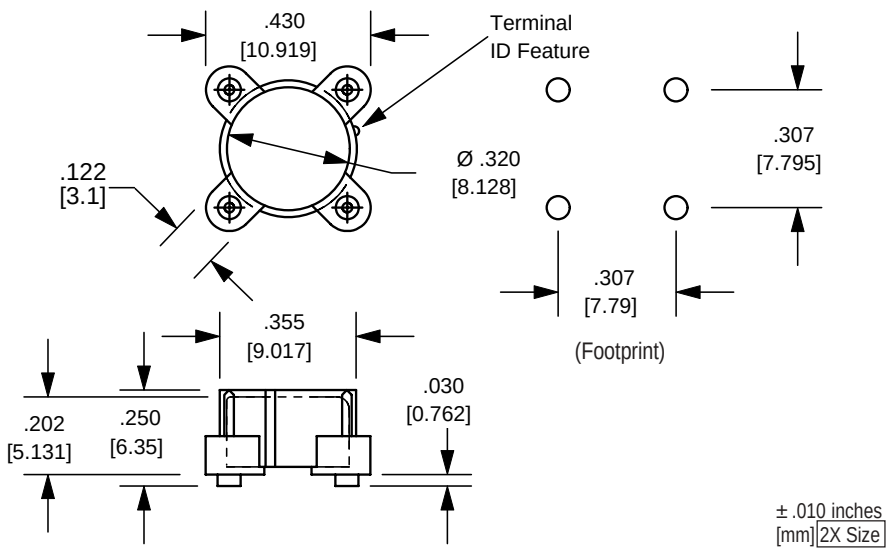
Rating: UL94-VO

4 Terminals: Brass, Ni Flash 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For low profile horizontal surface mounting of wound toroids up to .320 inches in diameter. "Lunar Lander" terminal design improves coplainarity, terminal durability during handling and transit, and uses less circuit board real estate. Ideal for automatic pick and place.



STM365-6

Material: Epoxy (Black)

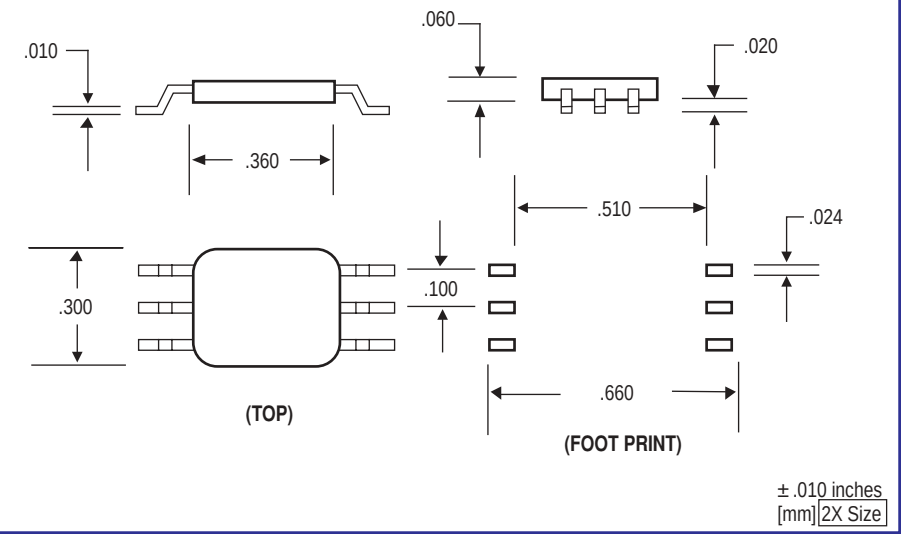
Rating: UL 94-VO

6 Terminals: Alloy 42 .024 X .010 Lead Frame 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: For gull wing surface mounting of components and wound toroids up to .360 inches in diameter.



STM37CS-06

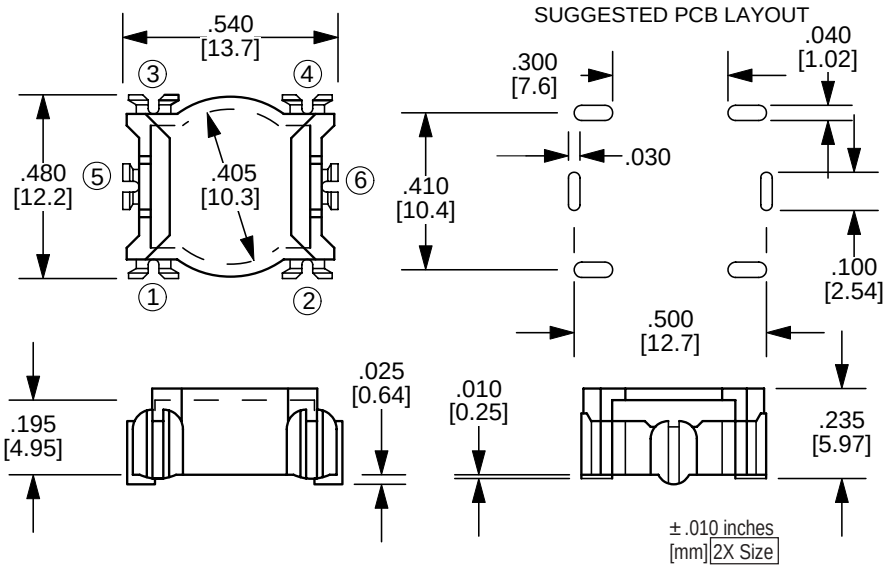
Material: Ryton R4 (Black)

Rating: UL 94-VO

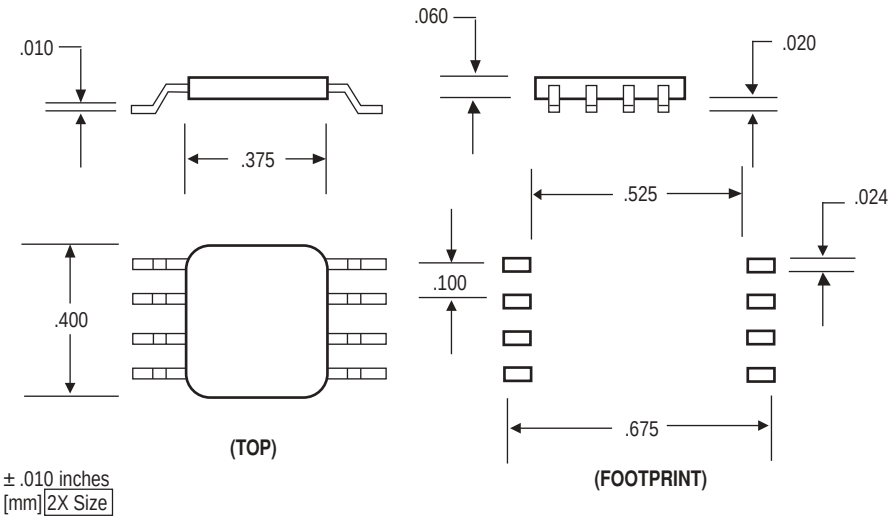
6 Terminals: Self Leading

Packaging Tray: TY74x77-A

Application: For self leading, surface mount, transformers or current sensors. The case is designed for wound toroids up to .400 inches in diameter and uses the toroid's winding leads to surface mount the toroid and case to the PCB. Use #34 AWG (.006) in termination positions 5 & 6 and #24 AWG (.020) in positions 1,2,3,& 4. This product is the patented concept of **Pulse Engineering Inc.**



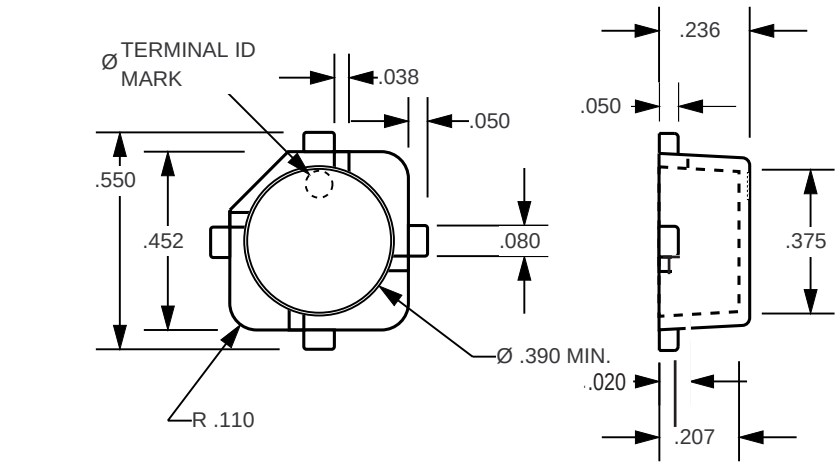
STM375-8



Material:	Epoxy (Black)
Rating:	UL 94-VO
8 Terminals:	Alloy 42 .024 X .010 Lead Frame 90/10 Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY45x70-A

Application: For gull wing surface mounting of components and wound toroids up to .375 inches in diameter.

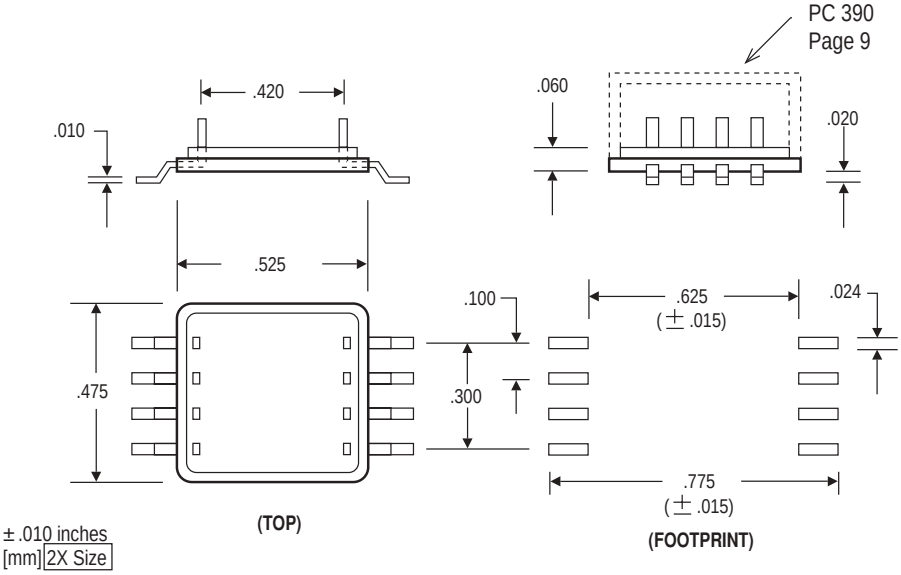
STM385-04



Material:	Phenolic (Black)
Rating:	UL94-VO
4 Terminals:	Self Leading
Packaging Tray:	TY74x77-A

Application: For surface mounting of toroids with wound diameters up to .385 inches. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the solderpaste on the printed circuit board pad during infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs.

STM390-8



Material:	Epoxy (Black)
Rating:	UL 94-VO
8 Terminals:	Alloy 42 .024 X .010 Lead Frame 90/10 Tin Plated.
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY65x100-A

Application: For surface mounting of components and wound toroids up to .400 inches in diameter. Potting cup PC390 may be used to encapsulate the component and its connections. See page 9.

STM395-14

Material: Diallyl Phthalate (Black)

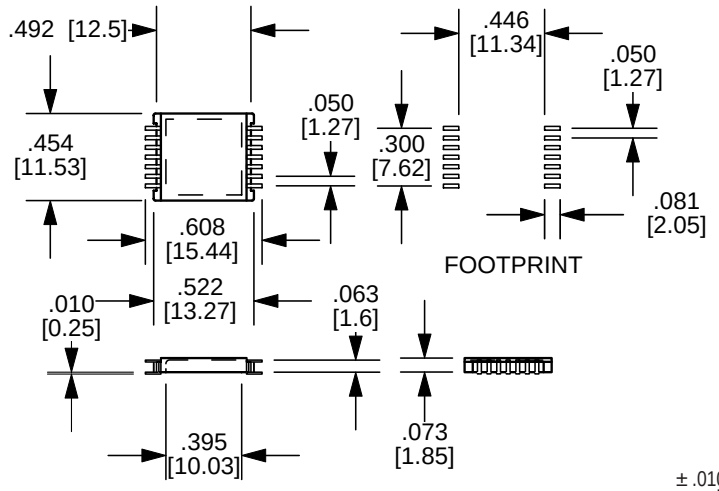
Rating: UL94-VO

14 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY74x77-A

Application: "U" shaped surface mount terminals with an inverted cup design. Component leads are terminated to the terminal extensions. Ideal for automatic pick and place of low profile wound toroids and components up to .395 inches in diameter.



STM40LC-02

Material: LCP (Black)

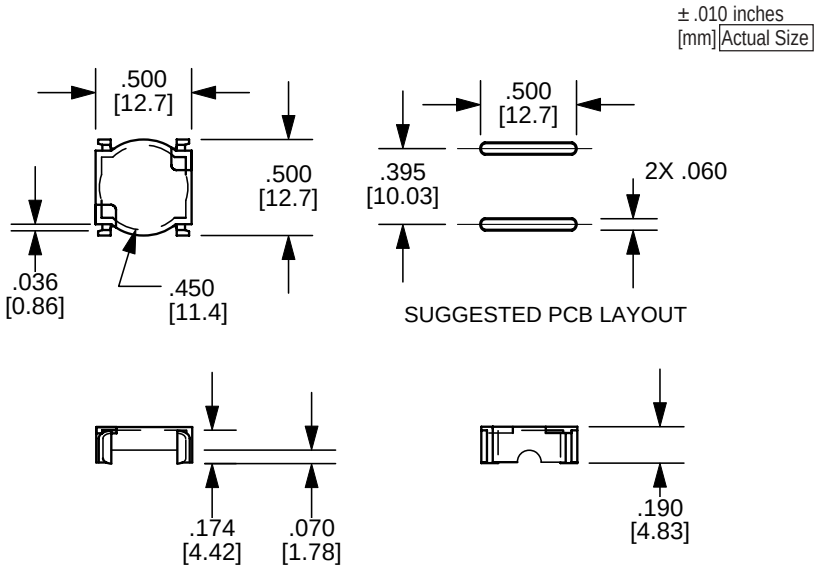
Rating: UL94-VO

2 Terminals: Self Leading

Packaging Tray: TY74x77-A

Application: For self leading of surface mount low current inductors using wound toroids up to .450 inches in diameter. The toroids winding leads are used to make the surface mount connection to the PCB. The wound toroids leads are held in position by the slots and channels incorporated in the mounting case.

This popular "Bobcat" concept is the patented property of **Pulse**, San Diego, CA.



STM40LCC-04

Material: LCP (Black)

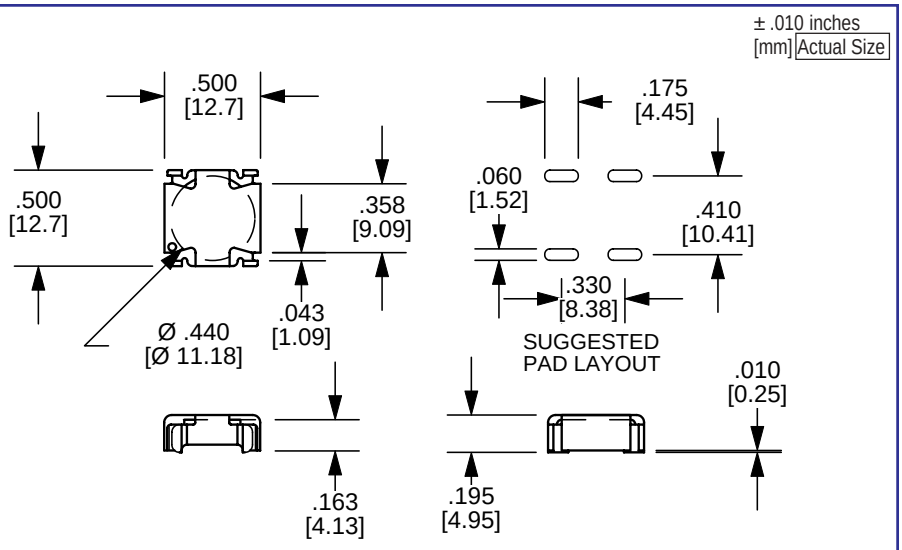
Rating: UL94-VO

4 Terminals: Self Leading

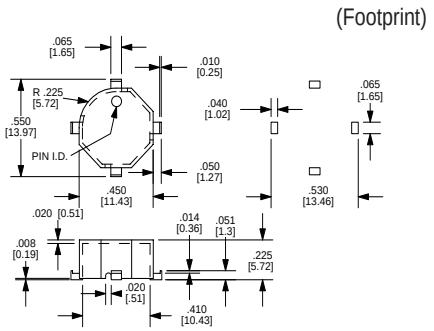
Packaging Tray: TY74x77-A

Application: For self leading of surface mount low current coupled inductors and transformers using wound toroids up to .450 inches in diameter. The toroids winding leads are used to make the surface mount connection to the PCB. The wound toroids leads are held in position by the slots and channels incorporated in the mounting case.

This popular "Polecat" concept is the patented property of **Pulse**, San Diego, CA.



STM403-04/190

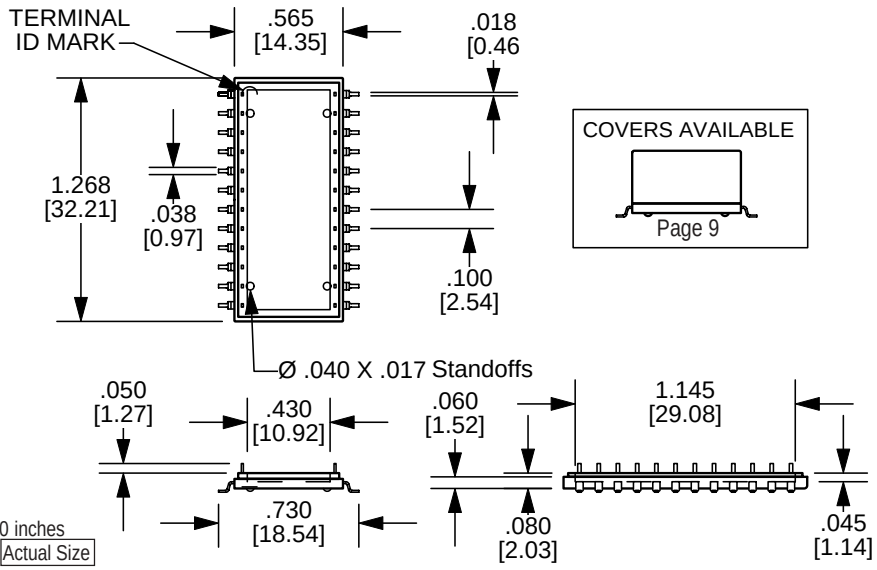


± .010 inches
[mm] Actual Size

Material:	LCP (Natural)
Rating:	UL94-VO
4 Terminals:	Self Leading
Packaging Tray:	TY50x50-A

Application: For surface mounting of toroids with wound diameters up to .403 inches, and .190 inches in height. The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the solderpaste on the printed circuit board pad during Infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. Ideal for automatic pick and place.

SMD430-24



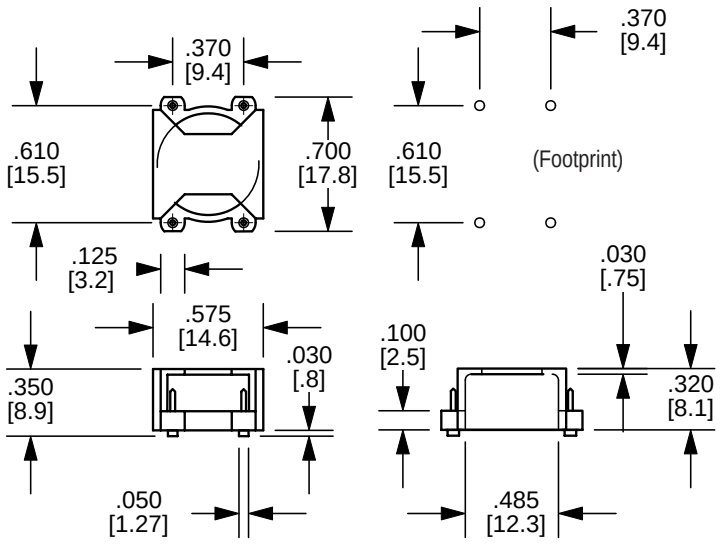
± .010 inches
[mm] Actual Size

Material:	Diallyl Phthalate (Black)
Rating:	UL94-VO
24 Terminals:	Alloy 42 Leadframe 90/10 Tin Plate
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY36x82-A

Application: Gull wing surface mount . Suitable for wound toroids up to .430 inches in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.

NEW

STM44-4



± .010 inches
[mm] Actual Size

Material:	Ryton R4 (Black)
Rating:	UL 94-VO
4 Terminals:	Brass, Nickel Flash 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY74x77-A

Application: For low profile horizontal surface mounting of wound toroids up to .485 inches in diameter. "Lunar Lander" terminal design improves coplanarity, terminal durability during handling and transit, and uses less circuit board real estate. Ideal for automatic pick and place.

SLED SERIES

Material: LCP (Black)
Zytel FR50 (Natural)

Rating: UL 94-VO

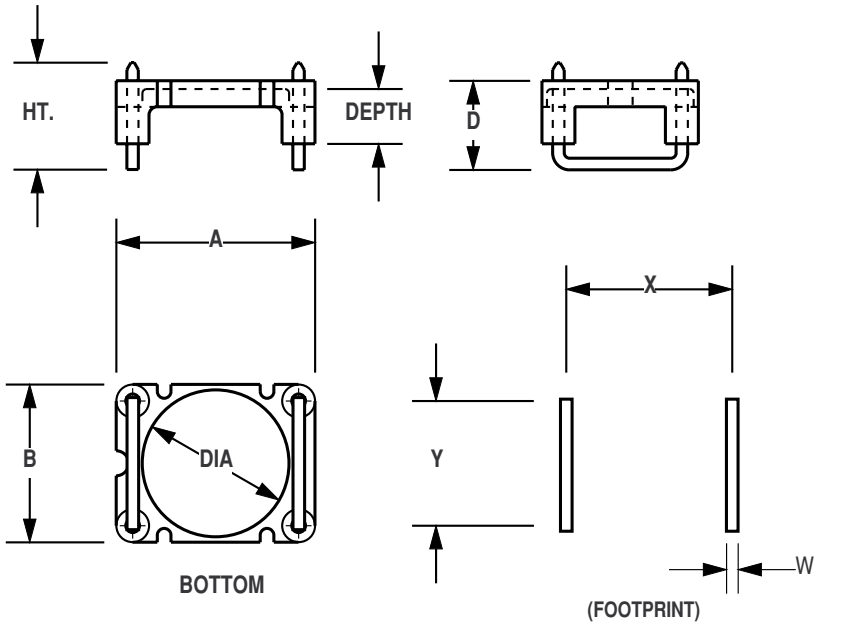
2 Terminals: Brass Alloy or
Phos. Bronze
90/10 Tin Plated

Solderability: Per MIL-STD-202
Method 208

Packaging Tray:

STM302-2	TY50x50-A
STM372-2	TY50x50-A
STM502-2	TY74x77-A
STM602-2	TY74x77-A

Application: For surface mounting of inductors up to .600 inches in diameter. Designed to facilitate termination, to be robust during handling, and easy to pick and place.



± .010 inches
[mm] Not to Scale

PART NO.	MAT'L	HT.	DEPTH	DIA.	A	B	D	W	X	Y
STM302-2	LCP	.245 [6.22]	.120 [3.04]	.270 [6.85]	.395 [10.03]	.340 [8.63]	.190 [4.82]	.025 [0.63]	.300 [7.62]	.245 [6.22]
STM302-2/A	Zytel	.245 [6.22]	.120 [3.04]	.270 [6.85]	.395 [10.03]	.340 [8.63]	.190 [4.82]	.025 [0.63]	.300 [7.62]	.245 [6.22]
STM372-2	LCP	.320 [8.12]	.170 [4.31]	.370 [9.39]	.475 [12.06]	.420 [10.66]	.270 [6.85]	.025 [0.63]	.375 [9.52]	.320 [8.12]
STM502-2	LCP	.385 [9.77]	.180 [4.57]	.445 [11.30]	.620 [15.74]	.520 [13.20]	.315 [8.00]	.045 [1.14]	.500 [12.70]	.400 [10.16[
STM602-2	LCP	.395 [10.03]	.200 [5.08]	.530 [13.46]	.725 [18.41]	.570 [14.47]	.325 [8.25]	.045 [1.14]	.600 [15.24]	.450 [11.43]

STM LC SERIES

Material: Ryton R4
(Black)

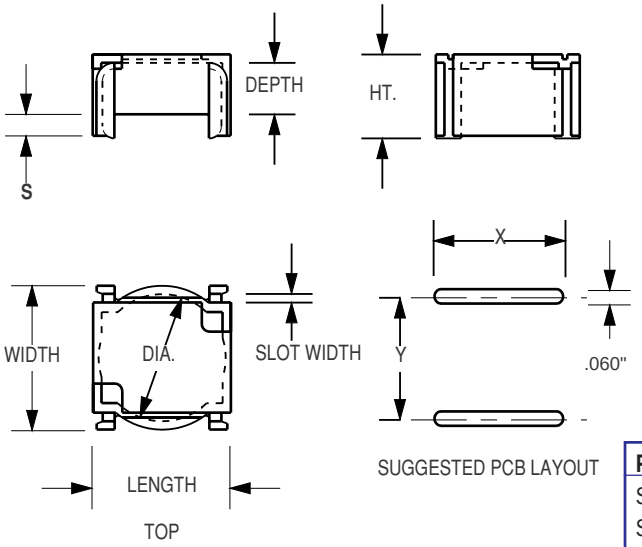
Rating: UL 94-VO

2 Terminals: Self Leading

Application: The STM LC Series is for self leading surface mount low current inductors. The series will accommodate wound toroidal cores from .200 up to .610 in diameter and uses the toroid's winding leads to surface mount the toroid and case to the printed circuit board. The wound toroid's leads are held in position by the slots and channels incorporated in the mounting case.

This product and concept is the patented property of **Pulse Engineering Inc.**, San Diego, CA.

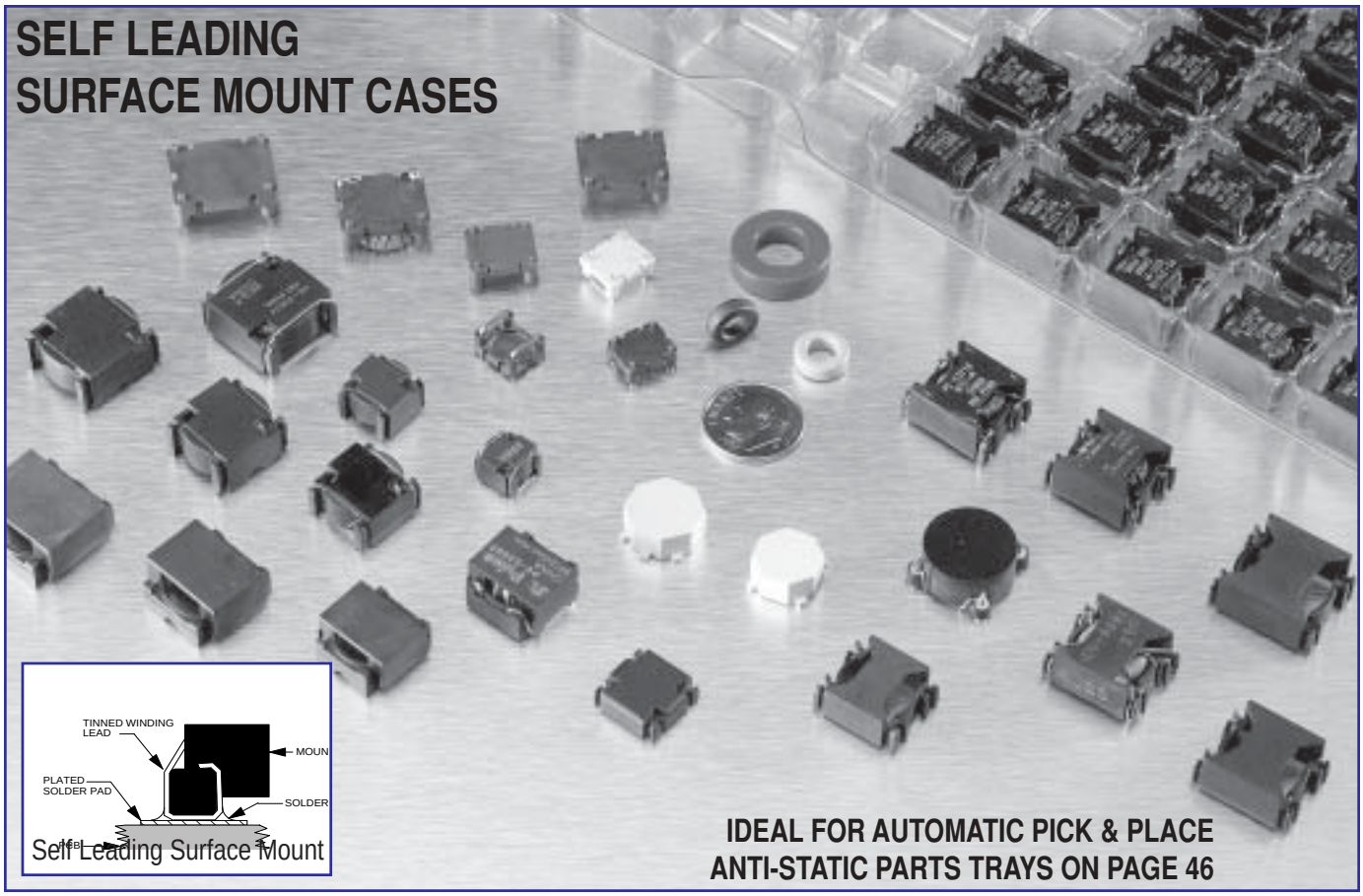
± .010 inches
[mm] Not to Scale



PART NO.	TRAY NO.
STM20LC-02	TY50x50-A
STM30LC-02	TY50x50-A
STM37LC-02	TY74x77-A
STM44LC-02	TY74x77-A
STM50LC-02	TY74x77-A

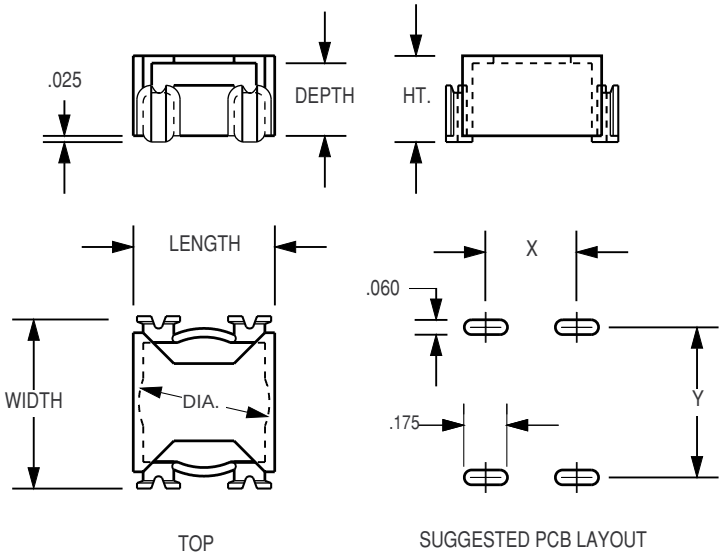
PART NO.	LENGTH	WIDTH	HT.	DIA.	DEPTH	S	SLOT	X	Y	RECOMMENDED WIRE SIZE
STM20LC-02	.330 [8.38]	.330 [8.38]	.240 [6.09]	.270 [6.85]	.135 [3.42]	.080 [2.03]	.024 [0.60]	.300 [7.62]	.270 [6.85]	#32 (.009) to #22 (.027)
STM30LC-02	.425 [10.79]	.430 [10.92]	.310 [7.87]	.375 [9.52]	.175 [4.44]	.100 [2.54]	.036 [0.91]	.400 [10.16]	.360 [9.14]	#32 (.009) to #20 (.034)
STM37LC-02	.545 [13.84]	.550 [13.97]	.310 [7.87]	.490 [12.44]	.175 [4.44]	.100 [2.54]	.036 [0.91]	.520 [13.20]	.460 [11.68]	#32 (.009) to #20 (.034)
STM44LC-02	.575 [14.60]	.600 [15.24]	.350 [8.89]	.530 [13.46]	.210 [5.33]	.100 [2.54]	.036 [0.91]	.550 [13.97]	.510 [12.95]	#30 (.011) to #20 (.034)
STM50LC-02	.650 [16.51]	.680 [17.27]	.350 [8.89]	.610 [15.49]	.210 [5.33]	.100 [2.54]	.036 [0.91]	.620 [15.74]	.590 [14.98]	#30 (.011) to #20 (.034)

SELF LEADING SURFACE MOUNT CASES



IDEAL FOR AUTOMATIC PICK & PLACE ANTI-STATIC PARTS TRAYS ON PAGE 46

± .010 inches
[mm] Not to Scale



PART NO.	TRAY NO.
STM37LCC-04	TY74x77-A
STM44LCC-04	TY74x77-A
STM50LCC-04	TY74x77-A

STM LCC SERIES

Material: Ryton R4 (Black)

Rating: UL 94-VO

4 Terminals: Self Leading

Application: The STM LCC Series is for self leading surface mount low current coupled inductors and transformers. The series will accommodate wound toroidal cores from .485 up to .605 in diameter and uses the toroid's winding leads to surface mount the toroid and case to the printed circuit board. The wound toroids leads are held in position by the slots and channels incorporated in the mounting case.

This product and concept is the patented property of **Pulse Engineering Inc.**, San Diego, CA.

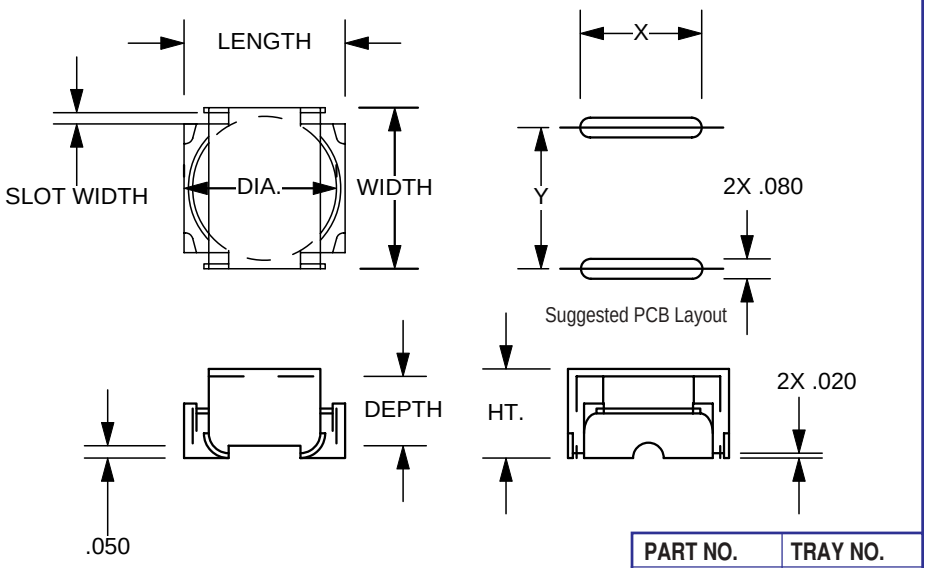
PART NO.	LENGTH	WIDTH	HT.	DIA.	DEPTH	X	Y	RECOMMENDED WIRE SIZE
STM37LCC-04	.550 [13.97]	.630 [16.00]	.310 [7.87]	.485 [12.31]	.255 [6.47]	.340 [8.63]	.530 [13.46]	# 32 (.009) to # 20 (.034) AWG.
STM44LCC-04	.575 [14.60]	.700 [17.78]	.350 [8.89]	.530 [13.46]	.295 [7.49]	.370 [9.39]	.610 [15.49]	# 32 (.009) to # 20 (.034) AWG.
STM50LCC-04	.650 [16.51]	.750 [19.05]	.350 [8.89]	.605 [15.36]	.295 [7.49]	.445 [11.30]	.660 [16.76]	# 32 (.009) to # 20 (.034) AWG.

STM HC SERIES

Material: Ryton R4 (Black)
Rating: UL 94-VO
2 Terminals: Self Leading

Application: The STM HC Series is for self leading surface mount low current inductors. The series will accommodate wound toroidal cores from .500 up to .840 in diameter and uses the toroid's winding leads to surface mount the toroid and case to the printed circuit board. The wound toroid's leads are held in position by the slots and channels incorporated in the mounting case.

This product and concept is the patented property of **Pulse Engineering Inc.**, San Diego, CA.



± .010 inches
[mm] Not to Scale

PART NO.	TRAY NO.
STM37HC-02	TY74x77-A
STM44HC-02	TY74x77-A
STM50HC-02	TY74x77-A
STM68HC-02	TY122x140-A

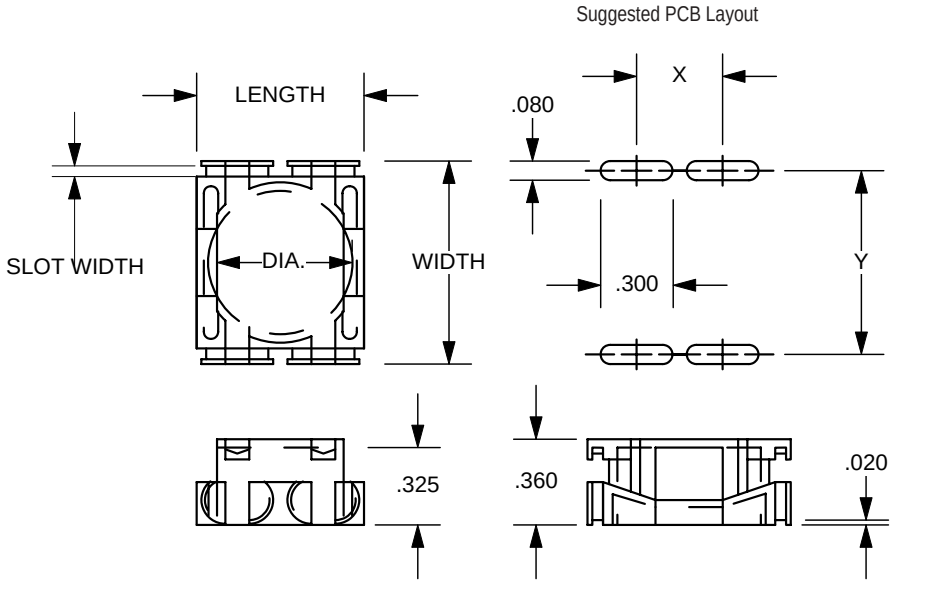
PART NO.	LENGTH	WIDTH	HT.	DIA.	DEPTH	SLOT WIDTH	X	Y	WIRE SIZE
STM37HC-02	.600 [15.2]	.585 [14.8]	.320 [8.1]	.500 [12.7]	.240 [6.1]	.045 [1.1]	.440 [11.2]	.500 [12.7]	#22 to #18
STM44HC-02	.650 [16.5]	.650 [16.5]	.360 [9.1]	.580 [14.7]	.280 [7.1]	.045 [1.1]	.490 [12.4]	.570 [14.5]	#22 to #18
STM50HC-02	.720 [18.3]	.720 [18.3]	.360 [9.1]	.650 [16.4]	.280 [7.1]	.045 [1.1]	.560 [14.2]	.640 [16.2]	#22 to #18
STM68HC-02	.920 [23.4]	.920 [23.4]	.355 [9.0]	.840 [21.3]	.275 [7.0]	.055 [1.4]	.700 [17.8]	.830 [21.1]	#20 to #16

STM HCC SERIES

Material: Ryton R4 (Black)
Rating: UL 94-VO
4 Terminals: Self Leading

Application: The STM HCC Series is for self leading surface mount low current coupled inductors and transformers. The series will accommodate wound toroidal cores from .600 up to .880 in diameter and uses the toroid's winding leads to surface mount the toroid and case to the printed circuit board. The wound toroids leads are held in position by the slots and channels incorporated in the mounting case.

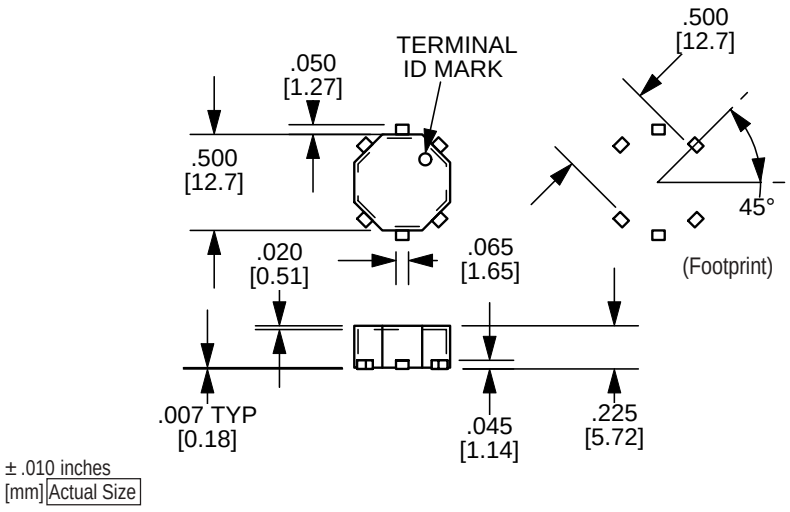
This product and concept is the patented property of **Pulse Engineering Inc.**, San Diego, CA.



± .010 inches
[mm] Not to Scale

PART NO.	LENGTH	WIDTH	DIA.	X	Y	SLOT WIDTH	WIRE SIZE	PACKAGING TRAY
STM44HCC-04	.700 [17.7]	.850 [21.6]	.600 [15.2]	.360 [9.1]	.770[19.6]	.045 [1.0]	#22 to #18	TY85x116-A
STM50HCC-04	.780 [19.8]	.895 [22.7]	.680[17.3]	.440 [11.2]	.810 [20.6]	.045 [1.0]	#22 to #18	TY85x116-A
STM68HCC-04	.980 [24.9]	1.090 [27.7]	.880 [22.3]	.620 [15.7]	1.010 [25.6]	.055 [1.4]	#20 to #16	TY122x140-A

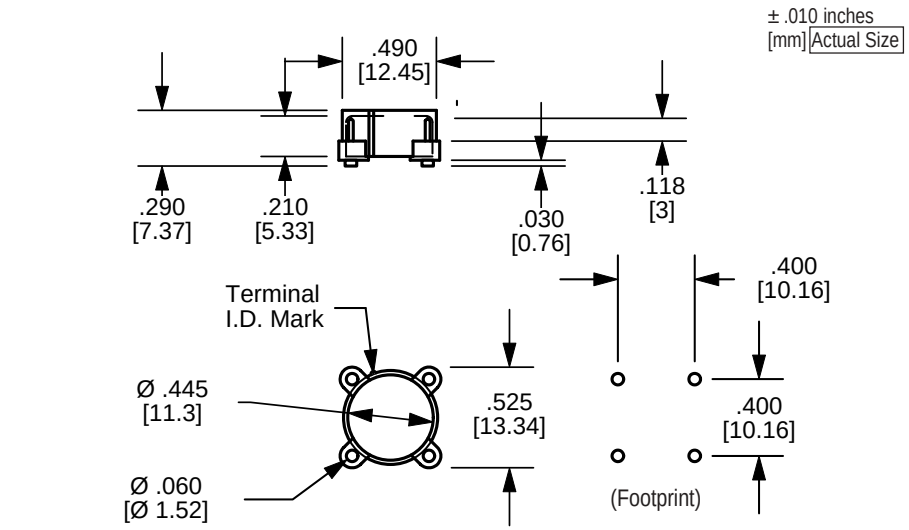
STM453-06/195



Material:	LCP (Natural)
Rating:	UL94-VO
6 Terminals:	Self Leading
Packaging Tray:	TY74x77-A

Application: For surface mounting of toroids with wound diameters up to .453 inches and .195 inches in height . The toroid leads are tinned, and wrapped around the tabs on the toroid mount. The toroid leads then make a direct connection to the solderpaste on the printed circuit board pad during Infrared solder reflow. Coplanarity is dependant on the quality of the tinned wire wrap on the tabs. Ideal for automatic pick and place.

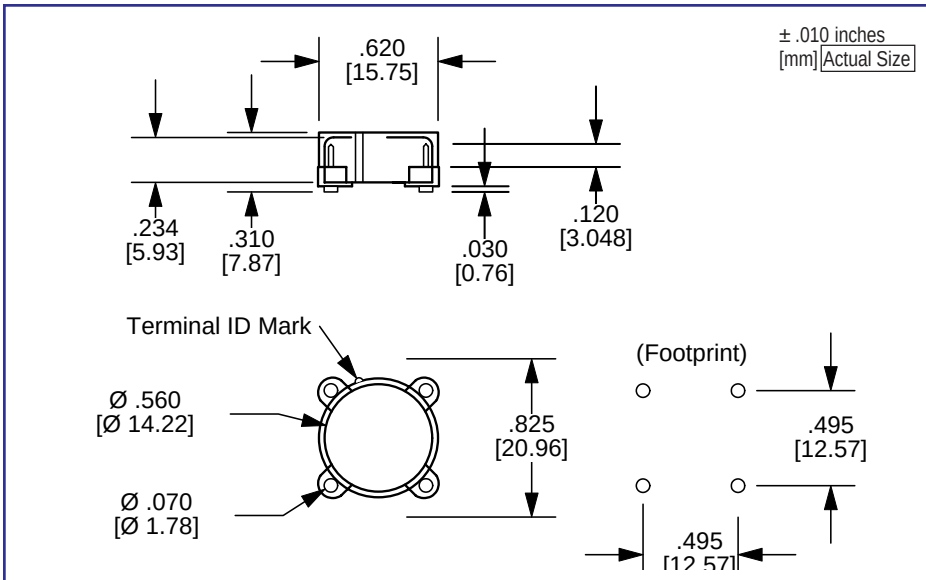
STM460-4



Material:	Diallyl Phthalate (Black)
Rating:	UL 94-VO
4 Terminals:	Brass, Nickel Flash 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY74x77-A

Application: For low profile horizontal surface mounting of wound toroids up to .445 inches in diameter. "Lunar Lander" terminal design improves coplanarity, terminal durability during handling and transit, and uses less circuit board real estate. Ideal for automatic pick and place.

STM560-4



Material:	Diallyl Phthalate (Black)
Rating:	UL 94-VO
4 Terminals:	Brass, Nickel Flash 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY74x77-A

Application: For low profile horizontal surface mounting of wound toroids up to .560 inches in diameter. "Lunar Lander" terminal design improves coplanarity, terminal durability during handling and transit, and uses less circuit board real estate. Ideal for automatic pick and place.

STM560-6

NEW

Material: Diallyl Phthalate (Black)

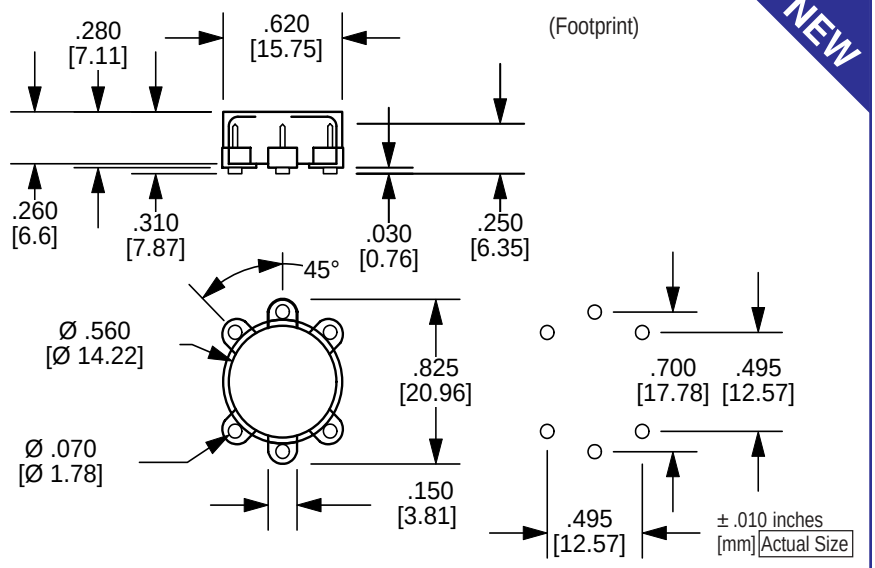
Rating: UL 94-VO

6 Terminals: Brass, Nickel Flash 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY74x77-A

Application: For low profile horizontal surface mounting of wound toroids up to .560 inches in diameter. "Lunar Lander" terminal design improves coplanarity, terminal durability during handling and transit, and uses less circuit board real estate. Ideal for automatic pick and place.



STM581-8

Material: Diallyl Phthalate (Black)

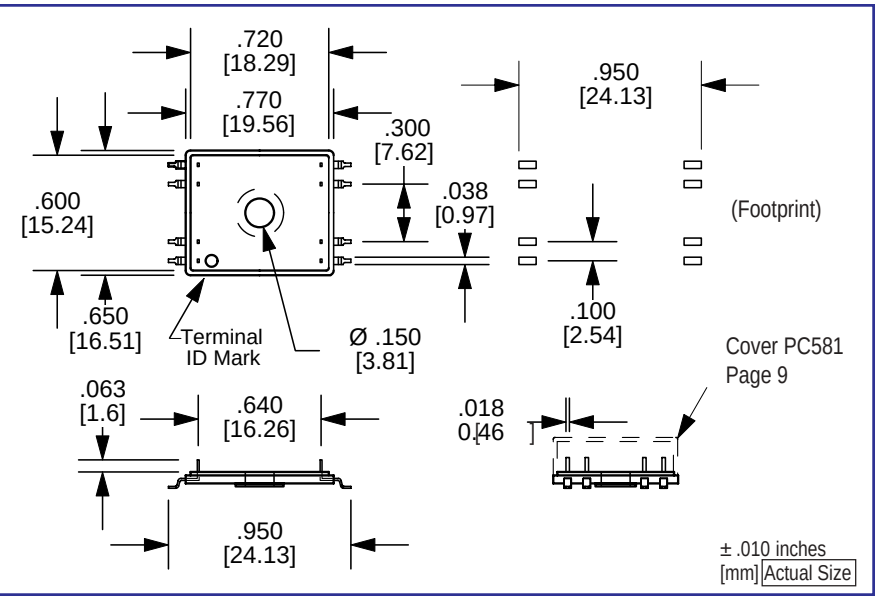
Rating: UL94-VO

8 Terminals: Alloy 42 .024 x .010 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY85x116-A

Application: For surface mount of components, pot cores and wound toroids up to .580 inches in diameter. Potting cup PC581 may be used to encapsulate the componet and its connections. See page 9.



STM581-12

NEW

Material: Diallyl Phthalate (Black)

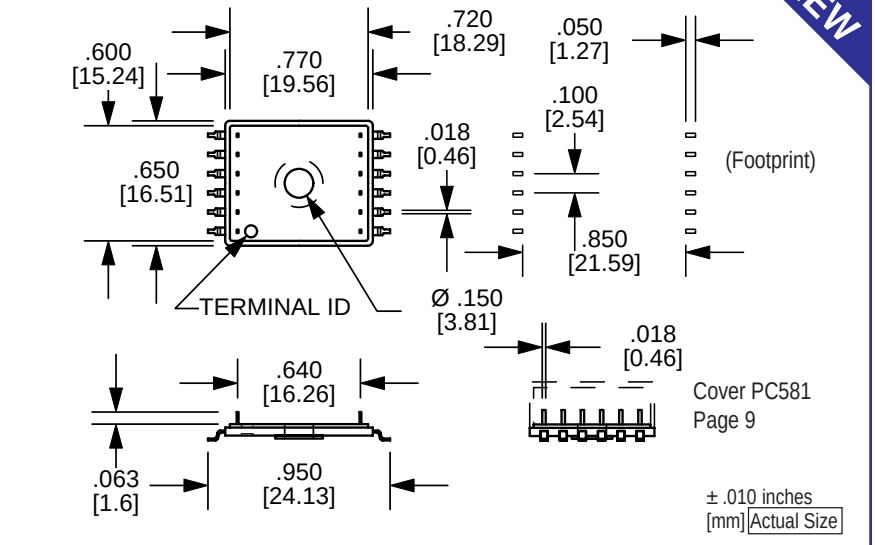
Rating: UL94-VO

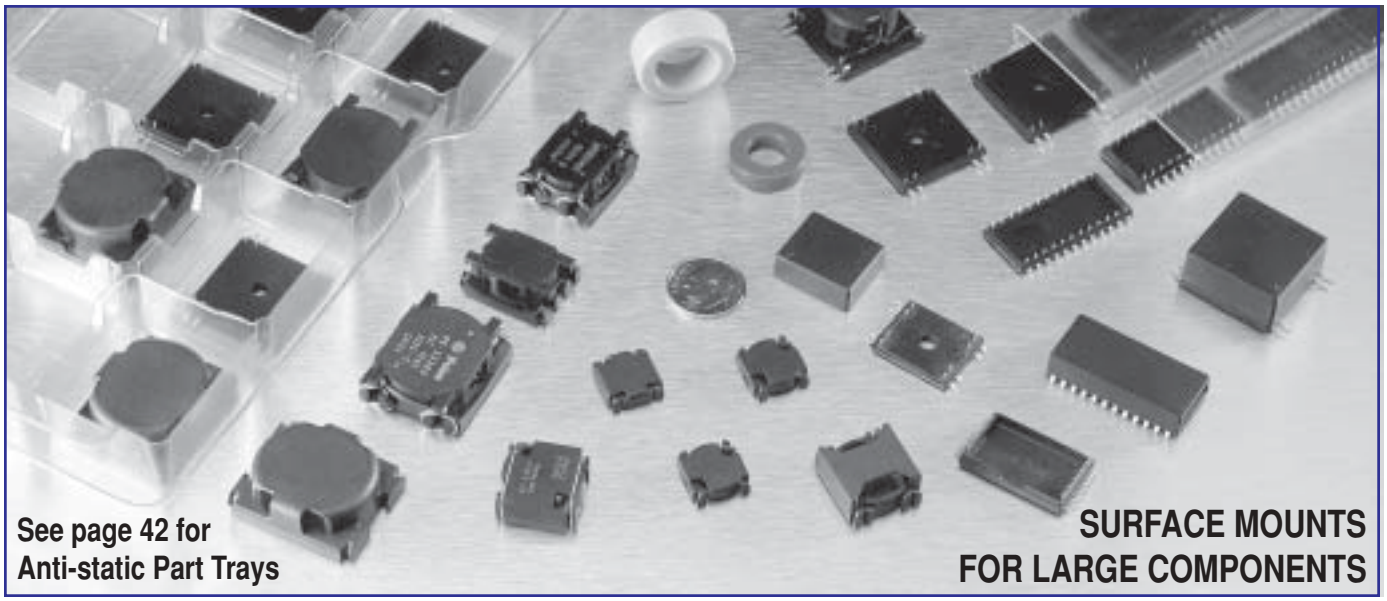
12 Terminals: Alloy 42 .024 x .010 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY85x116-A

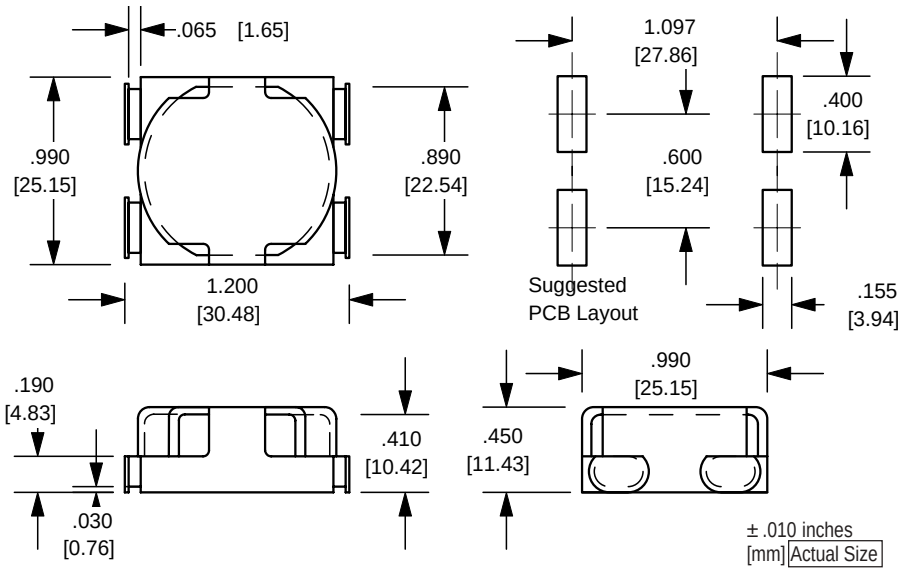
Application: For surface mount of components, pot cores and wound toroids up to .580 inches in diameter. Potting cup PC581 may be used to encapsulate the componet and its connections. See page 9.





See page 42 for
Anti-static Part Trays

SURFACE MOUNTS FOR LARGE COMPONENTS

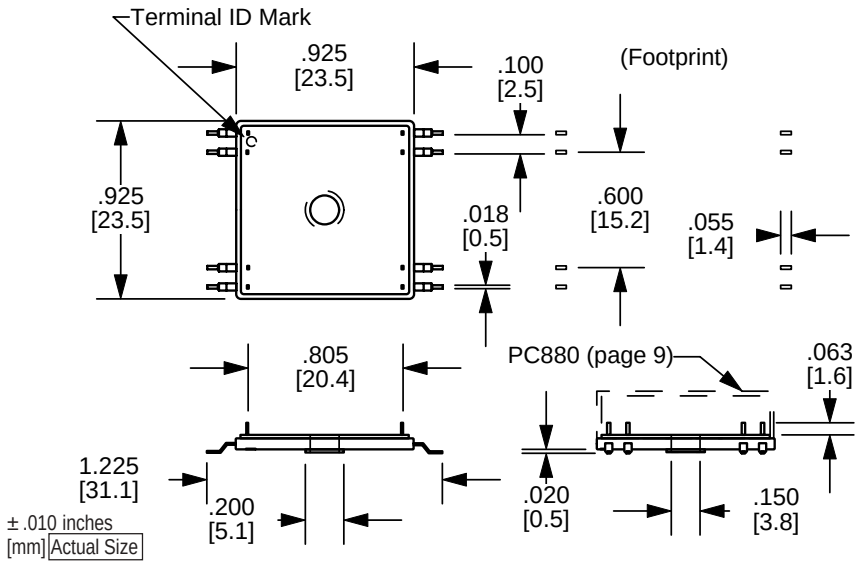


STM80HCC-04

Material:	Ryton R4 (Black)
Rating:	UL94-VO
4 Terminals:	Self Leading
Packaging Tray:	TY122x140-A

Application: For self leading of surface mount high current coupled inductors and transformers using wound toroids up to .890 inches in diameter. The toroids winding leads are used to make the surface mount connection to the PCB. The wound toroids leads are held in position by the slots and channels incorporated in the mounting case.

This popular "Bigfoot" concept is the patented property of **Pulse**, San Diego, CA.



STM880-8

Material:	Dialyl Phthalate (Black)
Rating:	UL 94-VO
8 Terminals:	Alloy 42 Lead Frame 90/10 Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY122x140-A

Application: For surface mounting of components, pot cores and wound toroids up to .900 inches in diameter. Potting cup PC880 may be used to encapsulate the component and its connections. (See page 9.)

DIP165-6

Material: Diallyl Phthalate (Black)

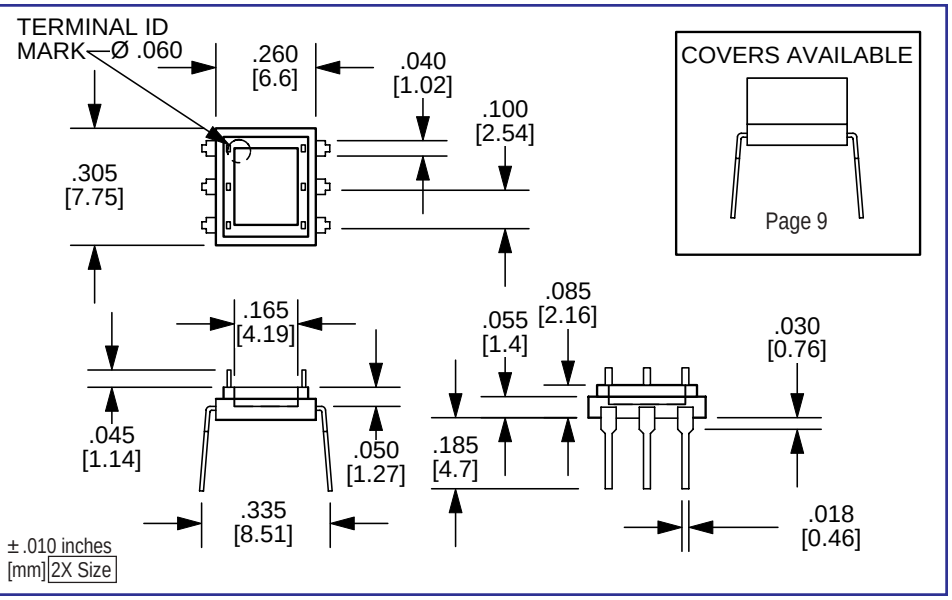
Rating: UL94-VO

6 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: Through hole version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



DIP165-8

Material: Diallyl Phthalate (Black)

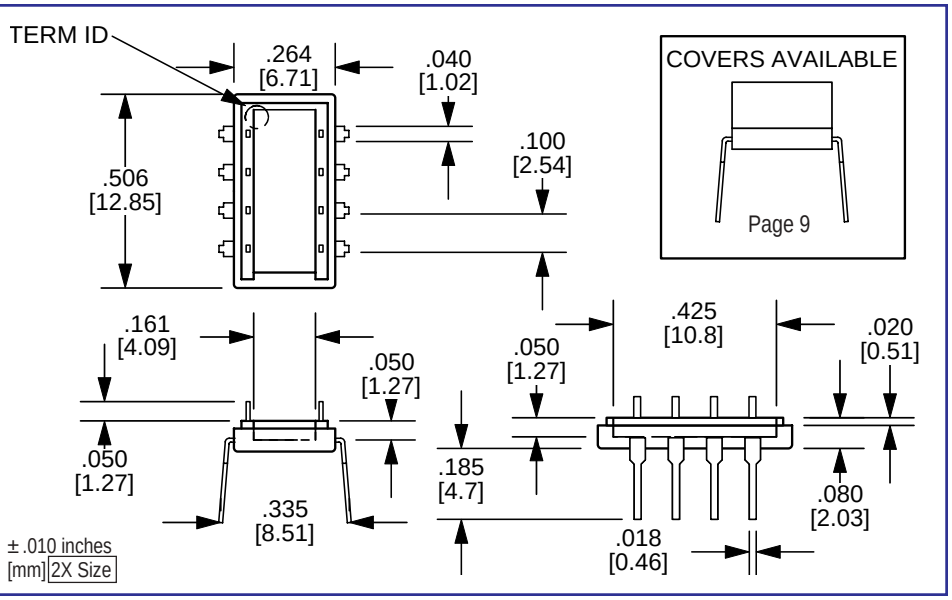
Rating: UL94-VO

8 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: Through hole version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



DIP165-16

Material: Diallyl Phthalate (Black)

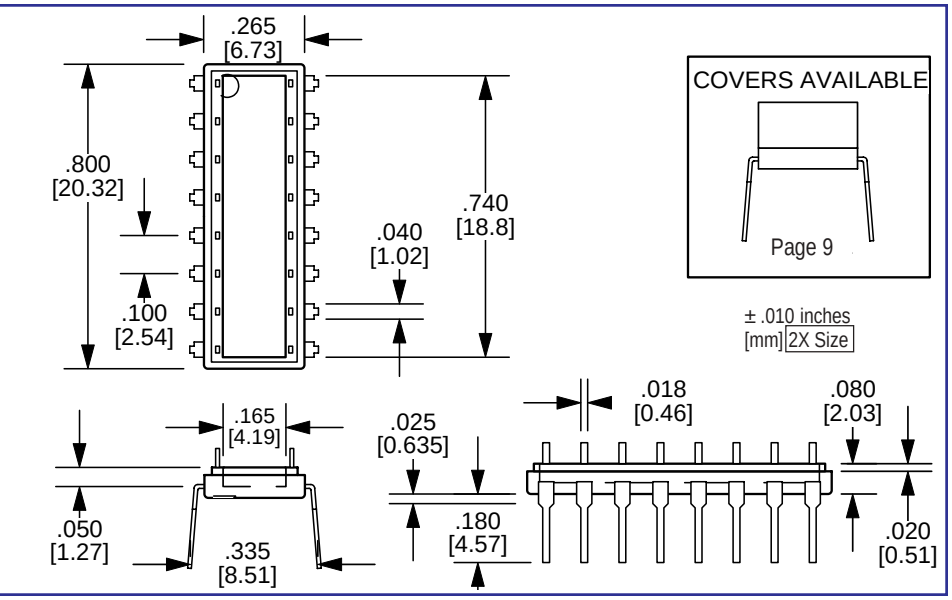
Rating: UL94-VO

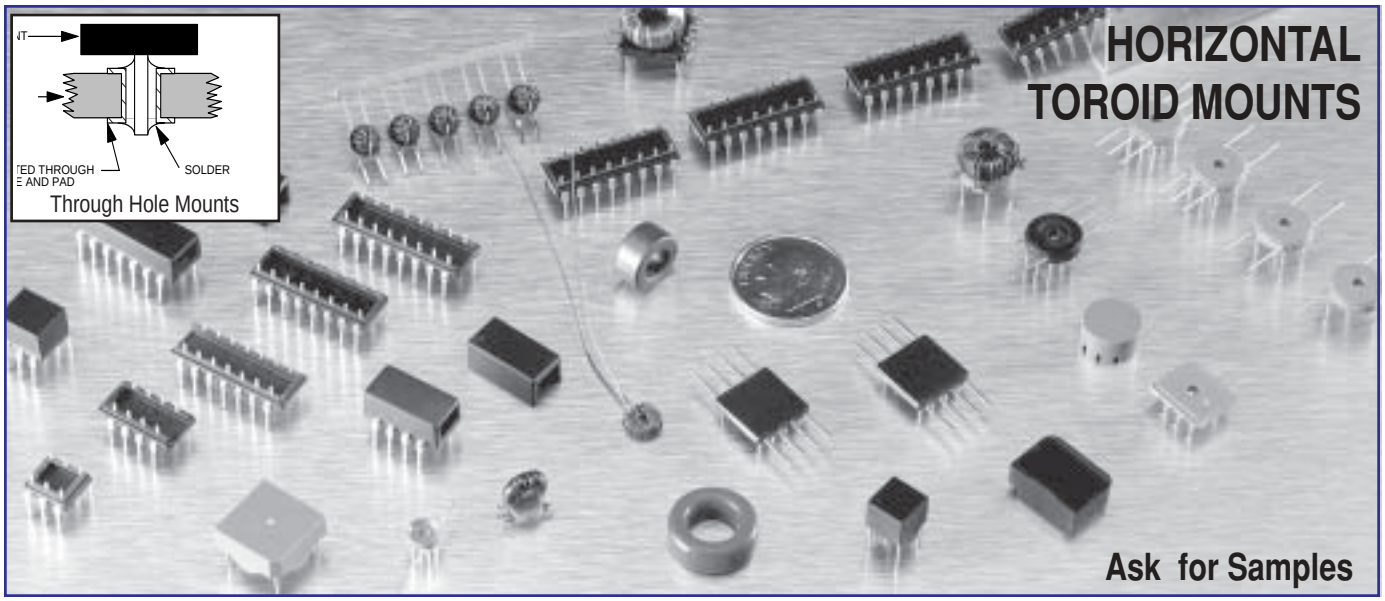
16 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

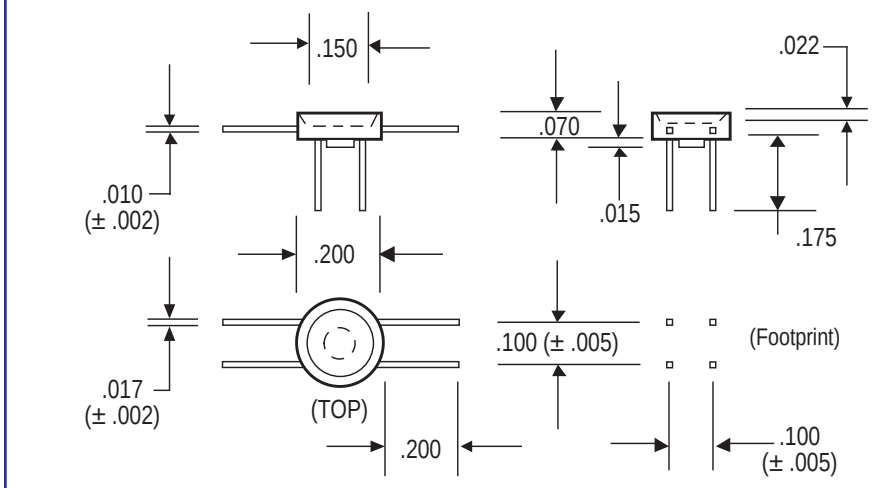
Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: Through hole version of the industry standard "dual-in-line" package. This product is shipped from Lodestone Pacific in anti-static shipping tubes. Encapsulation covers are available and sold separately. See page 9.



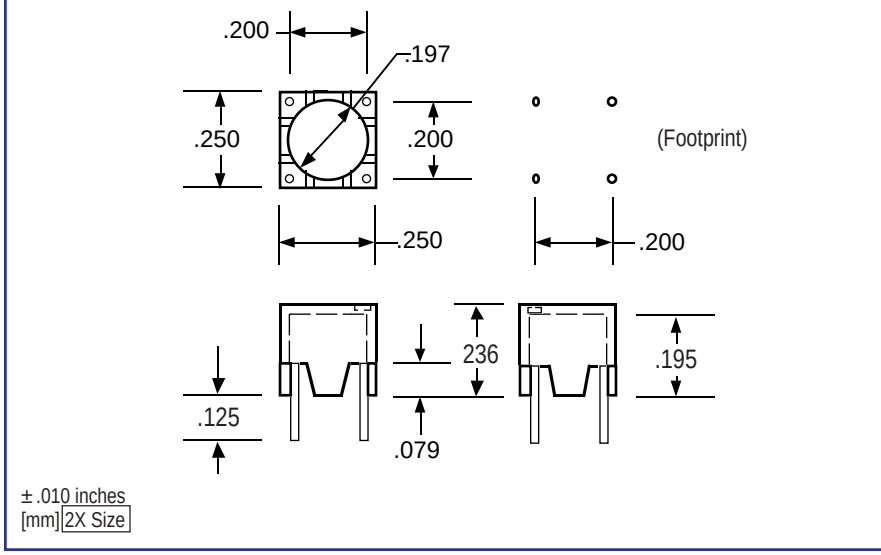




TM200-4

Material:	Diallyl Phthalate (Green)
Rating:	UL 94-VO
4 Terminals:	Alloy 42 .017 x .010 Lead Frame 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	None

Application: For horizontal mounting of toroids with wound diameters from .050 to .180 inches. TM200-4/110 is also available with a .110 instead of .175 terminal length.



TM251-4

Material:	Diallyl Phthalate (Green)
Rating:	UL 94-VO
4 Terminals:	Copper Wire .020 Dia. (#24 AWG) 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY50x50-A

Application: For encapsulating components and wound toroids up to .195 inches in diameter. Ideal for automatic pick & place.

TM305-06

Material: Diallyl Phthalate (Black)

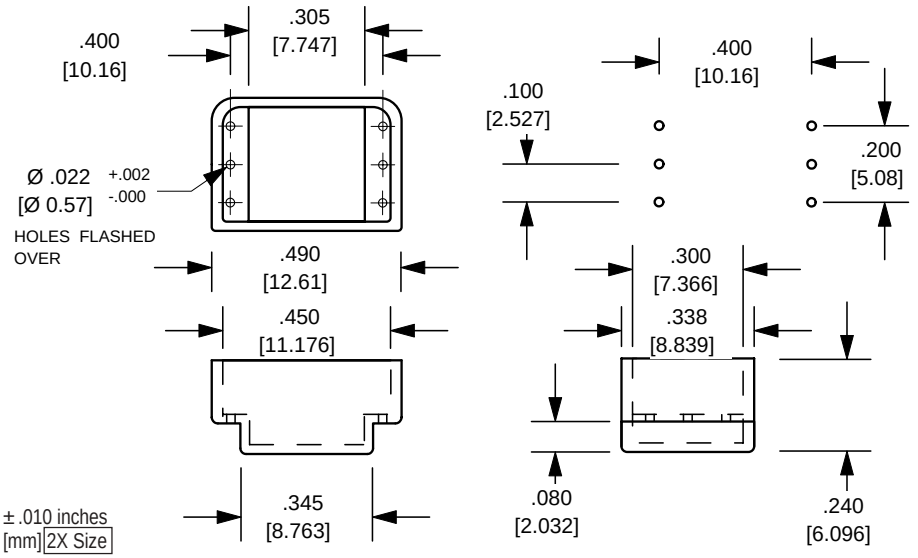
Rating: UL94-VO

6 Terminals: Self Leading Flashed over holes .022 in diameter

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: Widely used "T" case or potting cup for mounting components and wound toroids up to .300 in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes.



TM380-5

Molding: Diallyl Phthalate (Green)

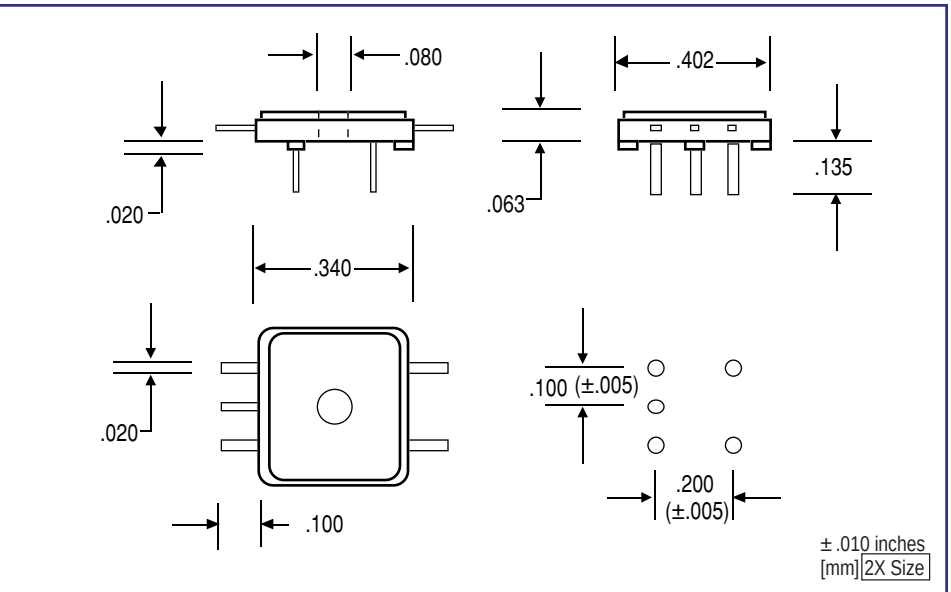
Rating: UL 94-VO

5 Terminals: Alloy 42 .020 X .010 LeadFrame Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: For horizontal mounting of components and wound toroids up to .380 inches in diameter.



TM400-8

Material: Epoxy (Black)

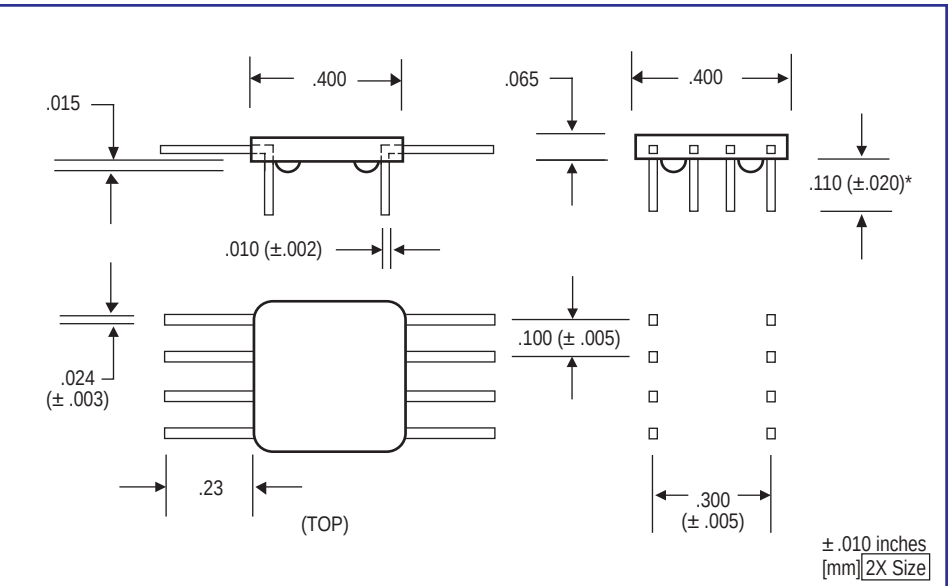
Rating: UL 94-VO

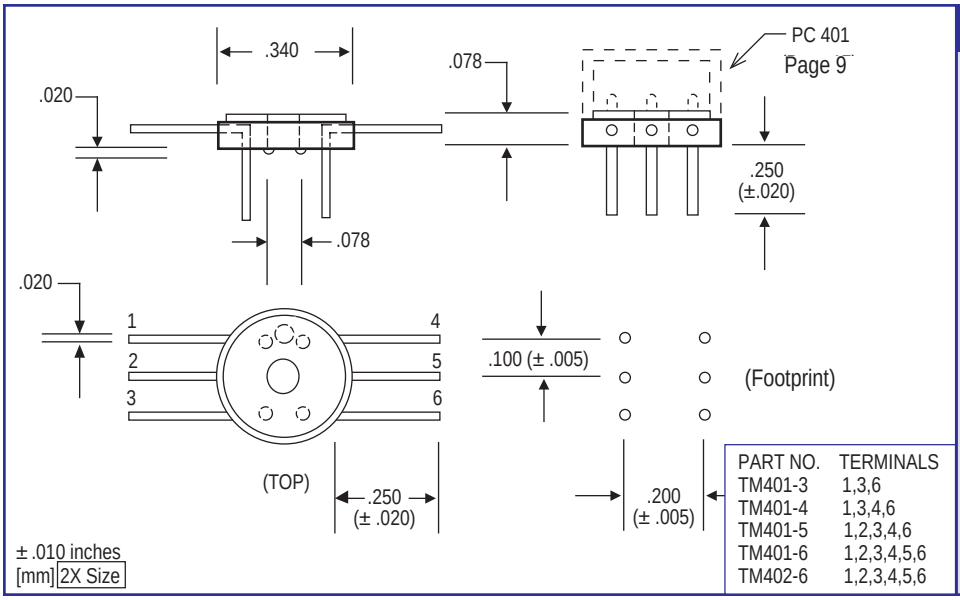
8 Terminals: Alloy 42 .024 x.010 Lead Frame 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: For horizontal mounting of components and wound toroids up to .400 inches in diameter.





PART NO.	TERMINALS
TM401-3	1,3,6
TM401-4	1,3,4,6
TM401-5	1,2,3,4,6
TM401-6	1,2,3,4,5,6
TM402-6	1,2,3,4,5,6

TM401 SERIES

Material: DAP (Green)

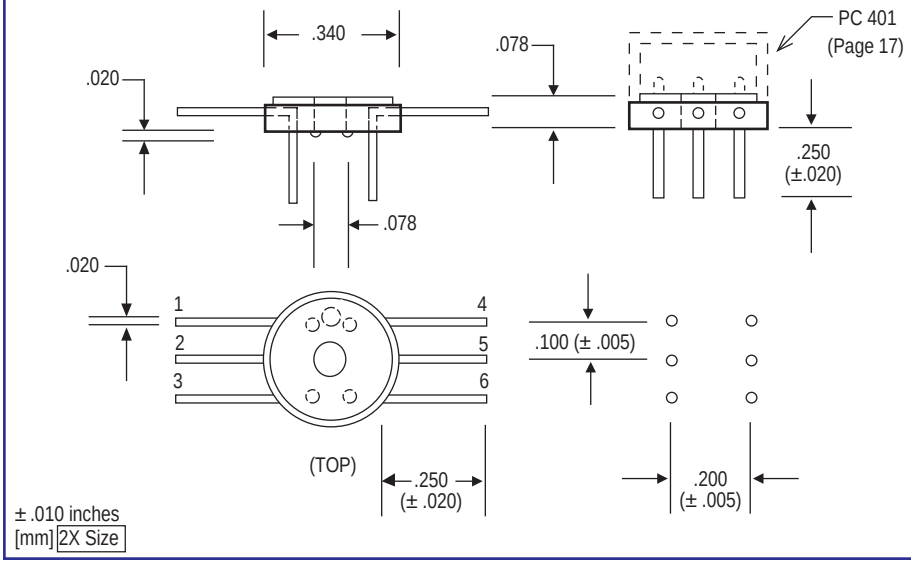
Rating: UL 94-VO

Terminals: Brass Wire, Nickel Flash
.020 Dia. (#24 AWG)
100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY36x82-A

Application: This series is suitable for components and wound toroids up to .340 inches in diameter. Potting cup PC401 is available for encapsulation. See page 9. (sold separately).



TM402-6

Material: Ryton (Black)

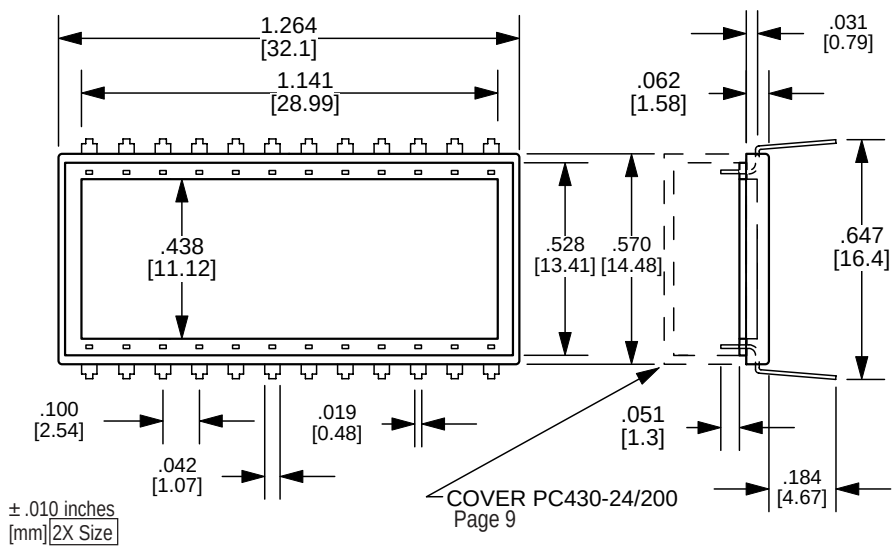
Rating: UL 94-VO

Terminals: Brass Wire, Nickel Flash
.020 Dia. (#24 AWG)
100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY36x82-A

Application: This series is suitable for components and wound toroids up to .340 inches in diameter. Potting cup PC401 is available for encapsulation. See page 9. (sold separately).



DIP430-24

Material: Diallyl Phthalate (Black)

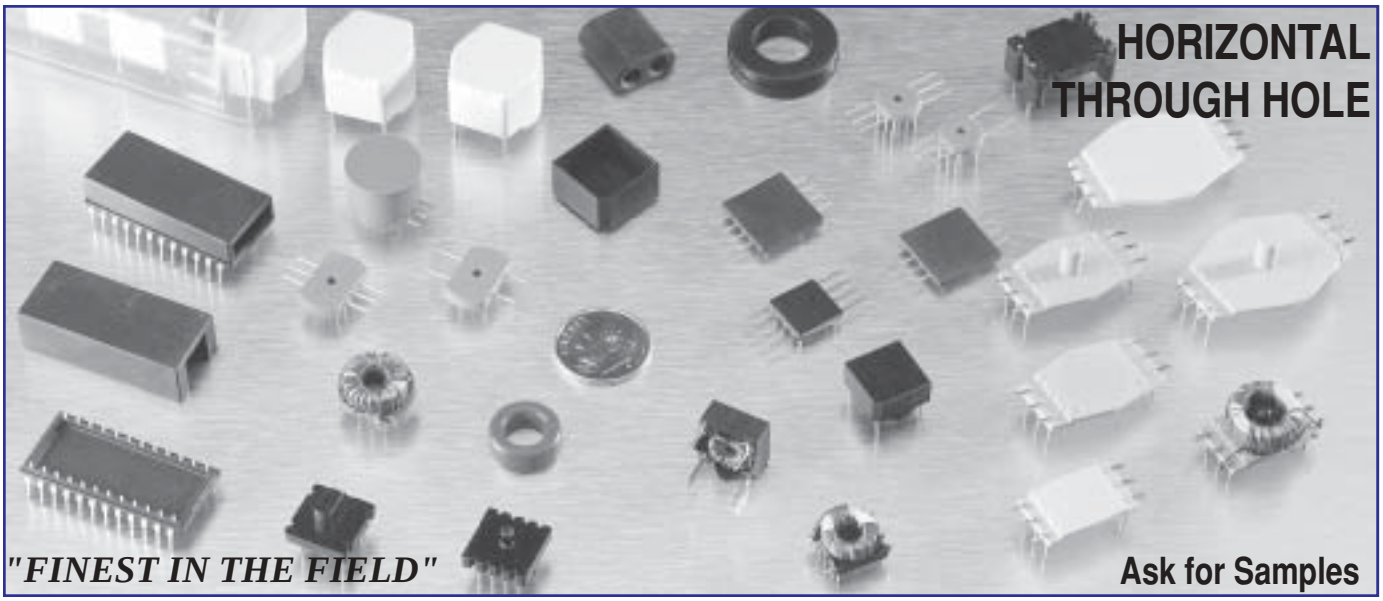
Rating: UL94-VO

24 Terminals: Alloy 42 Leadframe 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY36x82-A

Application: Gull wing surface mount of components and wound toroids up to .430 inches in diameter. Encapsulation covers are available and sold separately. See page 9.



TM450-6

Material: Rynite (Black)

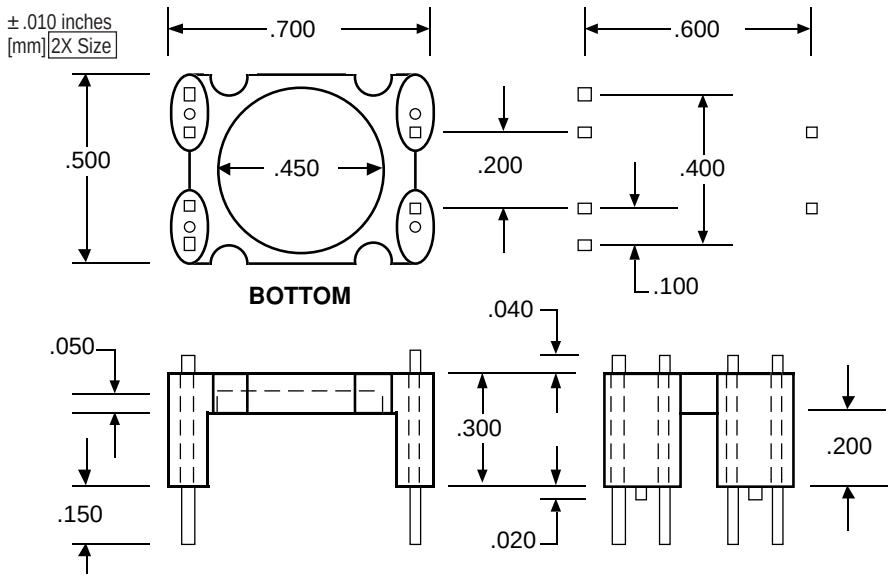
Rating: UL 94-VO

6 Terminals: Phos. Bronze .025 x .025 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY74x77-A

Application: For low profile horizontal mounting of wound toroids up to .450 inches in diameter. Ideal for transformer applications.



TM470-4

Material: Phenolic (Black)

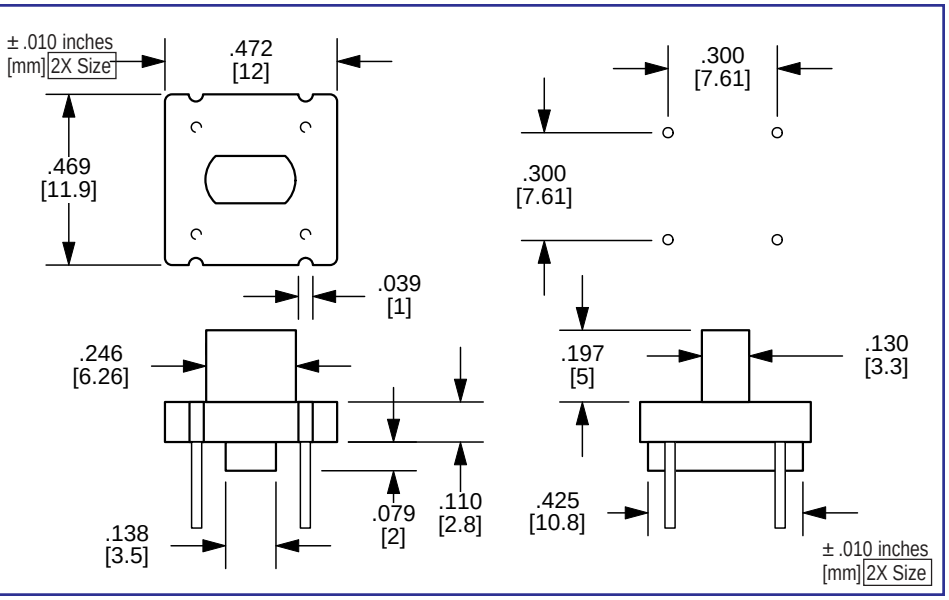
Rating: UL94-VO

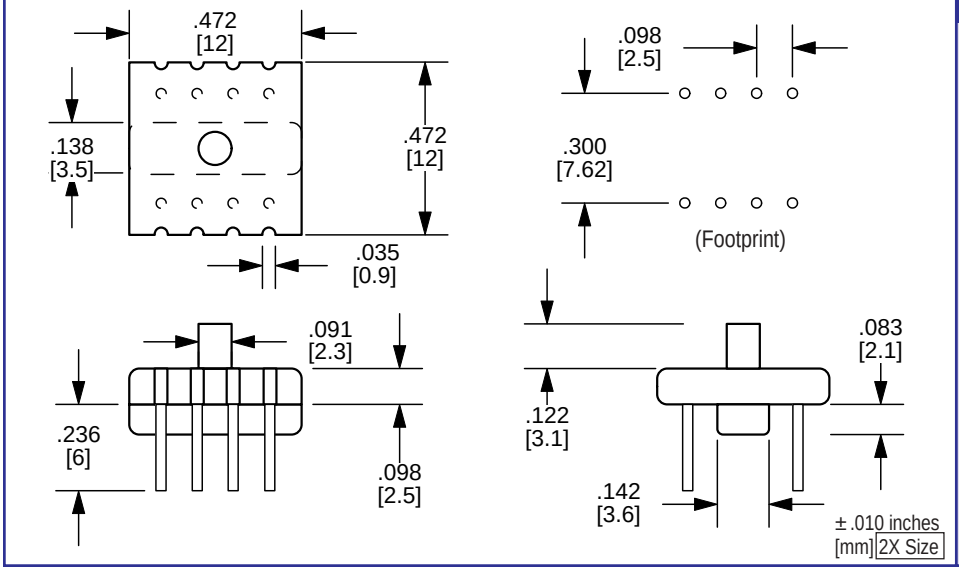
6 Terminals: Copper Wire 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For horizontal mounting of transformer and inductor applications using a wound toroid up to .470 inches in diameter. The center post is ideal for winding seperation in common mode applications.





TM475-8

Material: Phenolic (Black)

Rating: UL94-VO

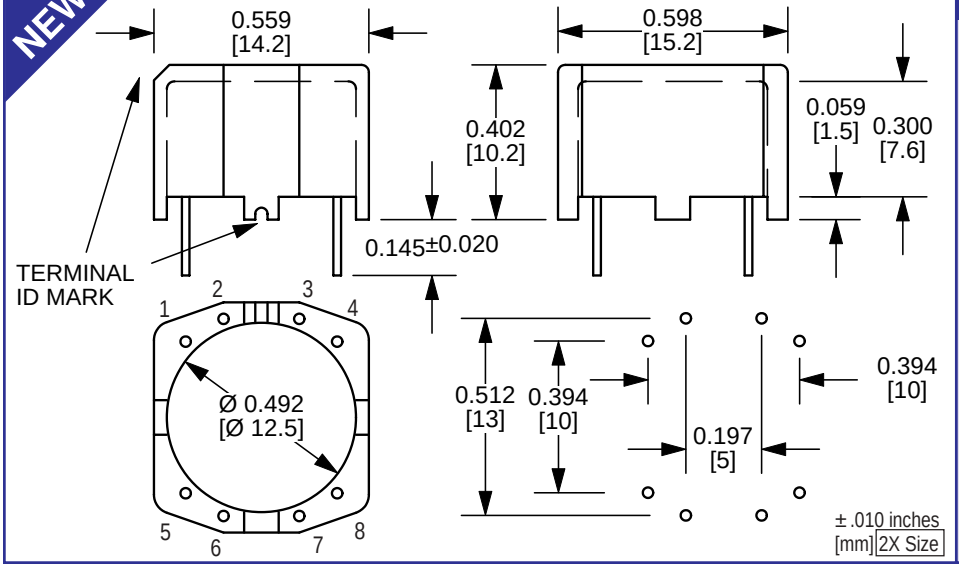
8 Terminals: Copper Wire 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For horizontal mounting of transformer and inductor applications using a wound toroid up to .475 inches in diameter.

NEW



HTC490-4 or HTC490-8

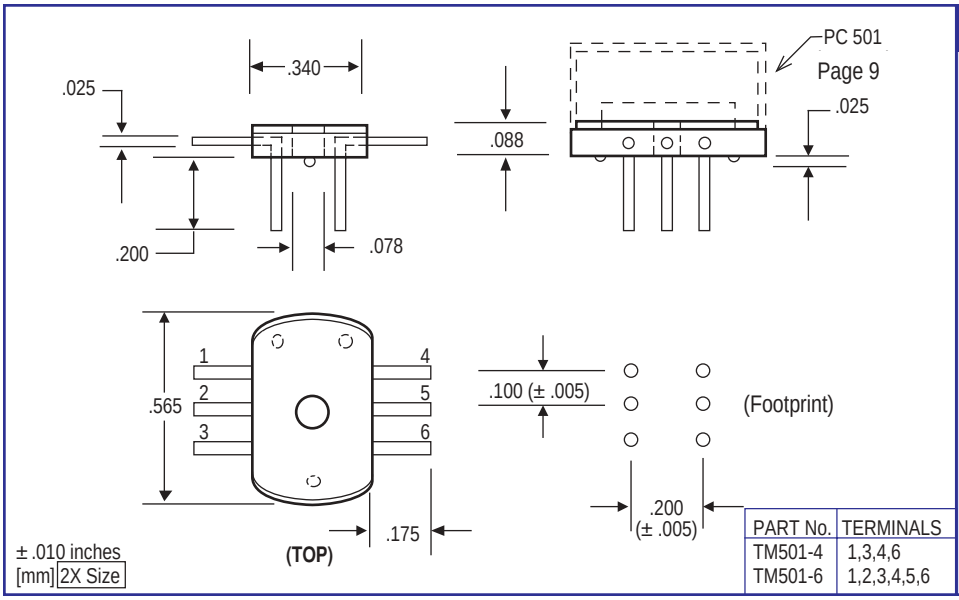
Material: Nylon 6/6 (Natural)

Rating: UL 94-VO

4 or 8 Terminals: Copper / Zinc .026 x .026 60/40 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Application: Enclosed horizontal mounting of toroidal inductors and transformers up to .492 inches in diameter. Ideal for applications requiring potting, part number marking and automatic pick and place. *8 terminals are available. Standard 4 Terminals available in positions 1, 4, 5, 8. These mounts are available in Anti-Static shipping tubes for automatic pick & place.



PART No.	TERMINALS
TM501-4	1,3,4,6
TM501-6	1,2,3,4,5,6

TM501 SERIES

Material: Diallyl Phthalate (Green)

Rating: UL 94-VO

Terminals: Brass wire, Ni Flash .025 Dia. (#22 AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: An industry standard for 20 years, this series is suitable for components and wound toroids up to .550 inches. Potting cup PC501 is available for encapsulation (sold separately). See page 9.

TM505-010

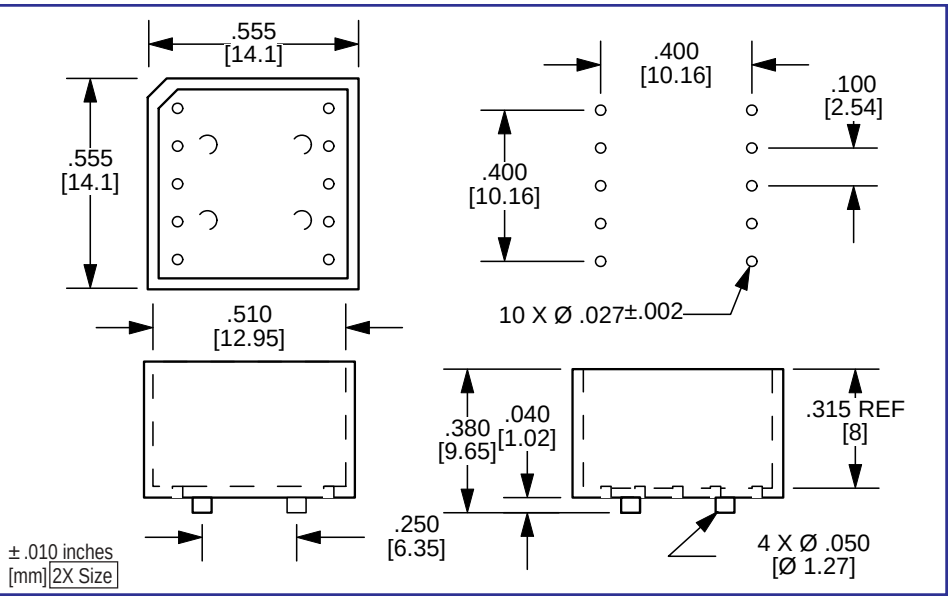
Material: Ryton (Black)

Rating: UL94-VO

10 Terminals: Self Leading

Packaging Tray: TY74x77-A

Application: For mounting components and wound toroids up to .500 inches in diameter. The toroids winding leads pass through hols in the bottom of the cup and are used to make the connection to the PCB.



TM507-4

Material: Diallyl Phthalate (Black)

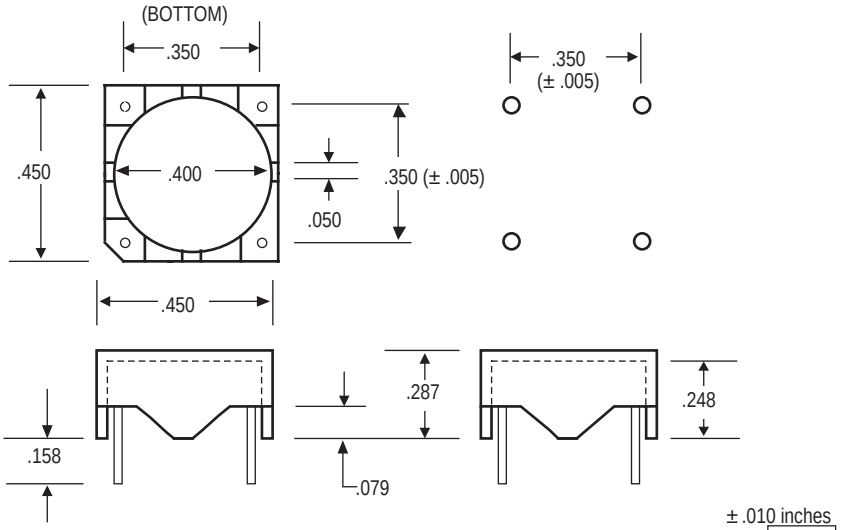
Rating: UL 94-VO

4 Terminals: Copper Wire .025 Dia. (#22 AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY74x77-A

Application: For enclosed horizontal mounting of wound toroids up to .400 inches in diameter.



TM550-8

Material: Diallyl Phthalate (Black)

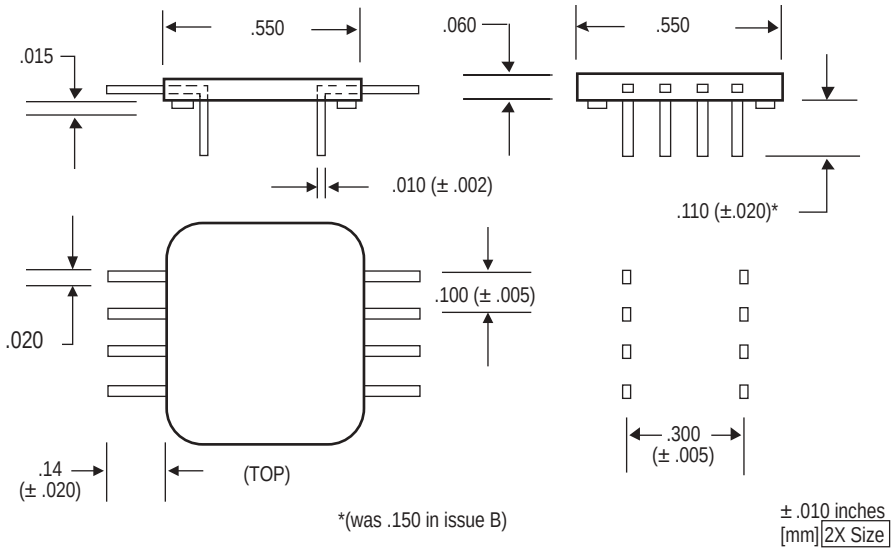
Rating: UL 94-VO MIL-STD-2000

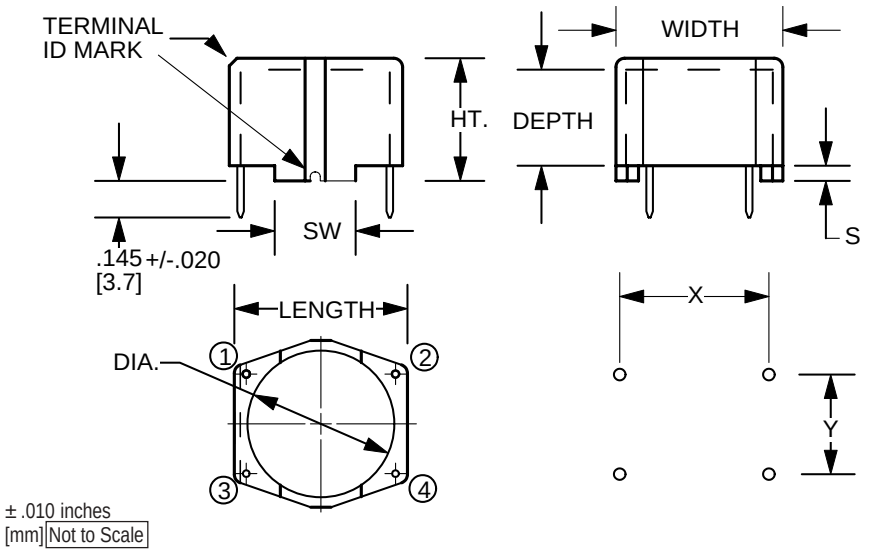
8 Terminals: Alloy 42 .020 x .010 Lead Frame 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: For horizontal mounting of components and wound toroids up to .550 inches in diameter.





± .010 inches
[mm] Not to Scale

HTC SERIES

Material: Nylon 6/6 (Natural)
DAP (Black)

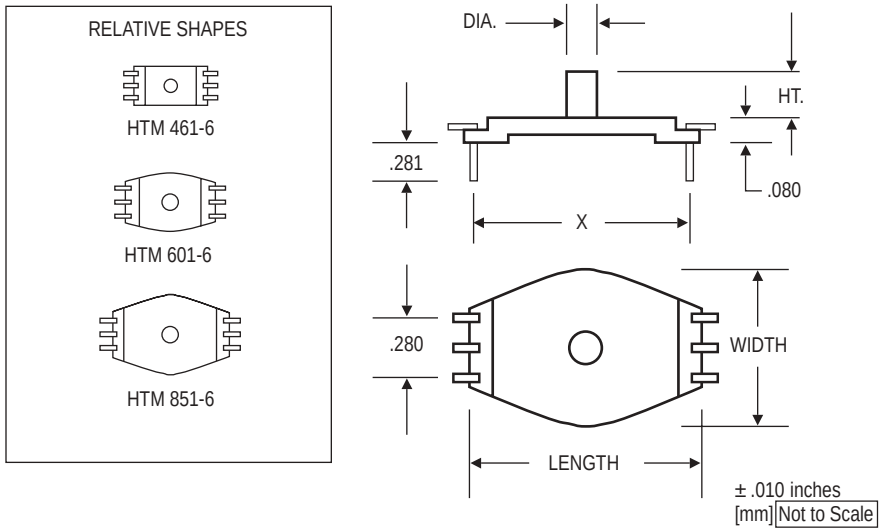
Rating: UL 94-VO

Terminals: Copper / Zinc
.026 x .026
60/40 Tin Plated

Solderability: Per MIL-STD-202
Method 208

Application: Enclosed horizontal mounting of toroidal inductors and transformers up to .965 inches in diameter. Ideal for applications requiring potting, part number marking and automatic pick and place. Terminals available in any of the 4 locations shown. Available in Anti-Static shipping tubes for automatic pick & place. HTC584-4 terminals are #20 copper tin plated .225 in length.

PART NO.	LENGTH	WIDTH	HT.	DEPTH	DIA.	SW	S	X	Y	MOULDING	PACKING TRAY
HTC583-0 HTC583-4	.689 [17.5]	.669 [16.9]	.492 [12.50]	.394 [10.0]	.602 [15.3]	.315 [8.0]	.060 [1.5]	.590 [15.00]	.394 [10.00]	Nylon 6/6	TY74x77-A
HTC584-4	.680 [17.3]	.660 [16.8]	.450 [11.4]	.345 [8.8]	.600 [15.2]	.315 [8.0]	.075 [1.9]	.600 [15.2]	.400 [10.2]	DAP (Black)	TY74x77-A
HTC764-0 HTC764-4	.886 [22.5]	.886 [22.5]	.590 [15.0]	.472 [12.0]	.819 [20.8]	.405 [10.3]	.077 [2.0]	.787 [20.00]	.492 [12.50]	Nylon 6/6	TY85x116-A
HTC965-0 HTC965-4	1.080 [27.5]	1.080 [27.5]	.690 [17.5]	.550 [14.0]	.972 [24.7]	.472 [12.0]	.098 [2.5]	.984 [25.00]	.590 [15.00]	Nylon 6/6	None



± .010 inches
[mm] Not to Scale

HTM SERIES

Material: Nylon 6/6
(Tan)

Rating: UL 94-VO

6 Terminals: Brass
.025 X .010
95/5 Tin Plated

Solderability: Per MIL-STD-202
Method 208

Application: Low profile horizontal mounting of wound toroids from .400 to .850 inches in diameter. Each size is available with or without a center post.

PART NO.	LENGTH	WIDTH	HT.	DIA.	X	CORE SIZES	PACKING TRAY
HTM 460-6	.720 [18.28]	.460 [11.68]	.000	.000	.638 [16.20]	up to .500 inches	TY65-100-A
HTM 461-6	.720 [18.28]	.460 [11.68]	.163 [4.14]	.120 [3.04]	.638 [16.20]	up to .500 inches	TY65-100-A
HTM 600-6	.937 [23.79]	.600 [15.24]	.000	.000	.848 [21.53]	up to .750 inches	TY85-116-A
HTM 601-6	.937 [23.79]	.600 [15.24]	.250 [6.35]	.156 [3.96]	.848 [21.53]	up to .750 inches	TY85-116-A
HTM 850-6	1.208 [30.68]	.850 [21.59]	.000	.000	1.130 [28.70]	up to 1.00 inches	TY122-140-A
HTM 851-6	1.208 [30.68]	.850 [21.59]	.250 [6.35]	.156 [3.96]	1.130 [28.70]	up to 1.00 inches	TY122-140-A

TM1850-16

NEW

Material: Rynite FR50 (Black)

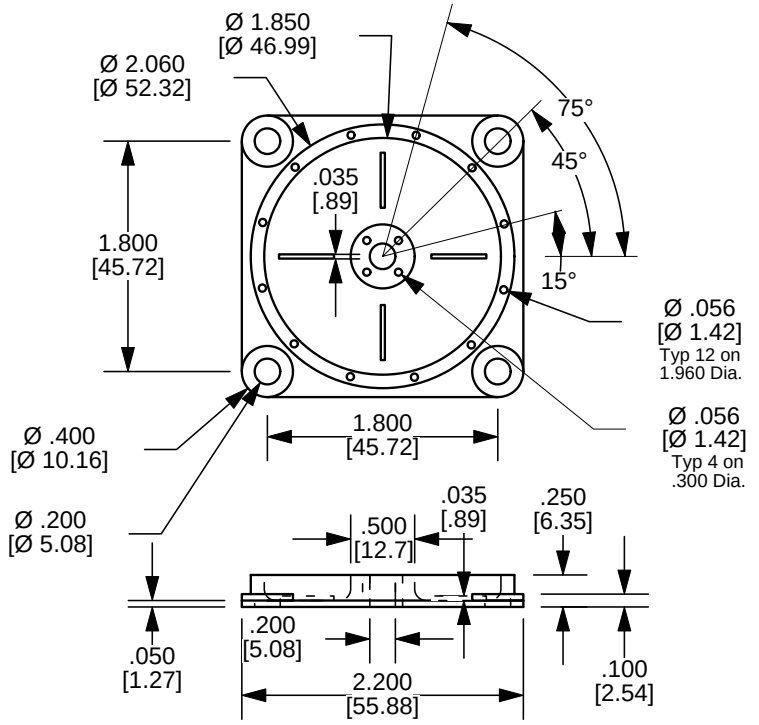
Rating: UL94-VO

16 Terminals: Self Leading

Packaging Tray: None

Application: For mounting wound toroids up to 1.85 inches in diameter. The toroids winding leads pass through hols in the bottom of the mount and are used to make the connection to the PCB. Four #10 bolt hole allow mounting to a chassis on on “stilts” above a crowded printed circuit board. The bolt holes can also be used to connect “flying leads”.

The resuoir portion of the mount will hold epoxy or RTPused to attach the coil. A potting cup fits over the core to facilitate complete encapsulation of the coil.(Sold separately.)



± .010 inches
[mm] Not to Scale

TM2300-16

NEW

Material: Rynite FR50 (Black)

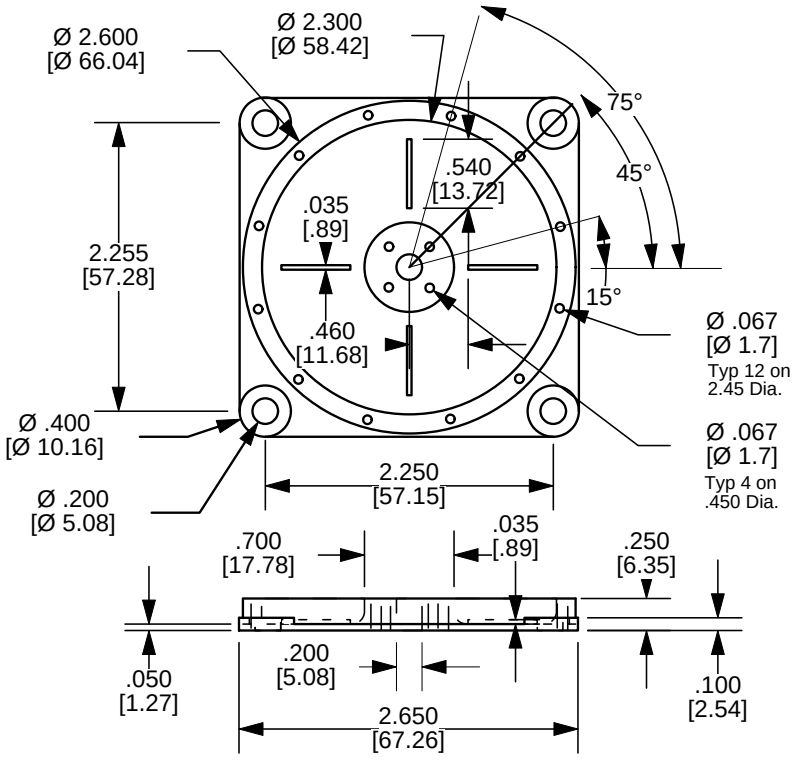
Rating: UL94-VO

16 Terminals: Self Leading

Packaging Tray: None

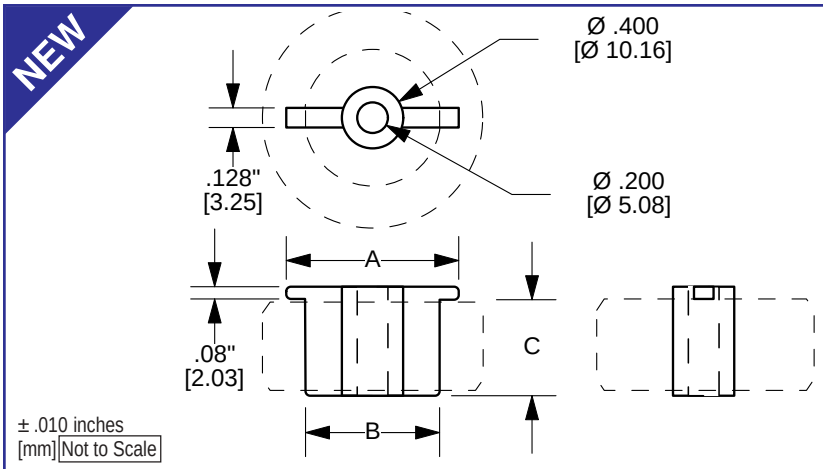
Application: For mounting wound toroids up to 1.85 inches in diameter. The toroids winding leads pass through hols in the bottom of the mount and are used to make the connection to the PCB. Four #10 bolt hole allow mounting to a chassis on on “stilts” above a crowded printed circuit board. The bolt holes can also be used to connect “flying leads”.

The resuoir portion of the mount will hold epoxy or RTPused to attach the coil. A potting cup fits over the core to facilitate complete encapsulation of the coil.(Sold separately.)



± .010 inches
[mm] Not to Scale

NEW



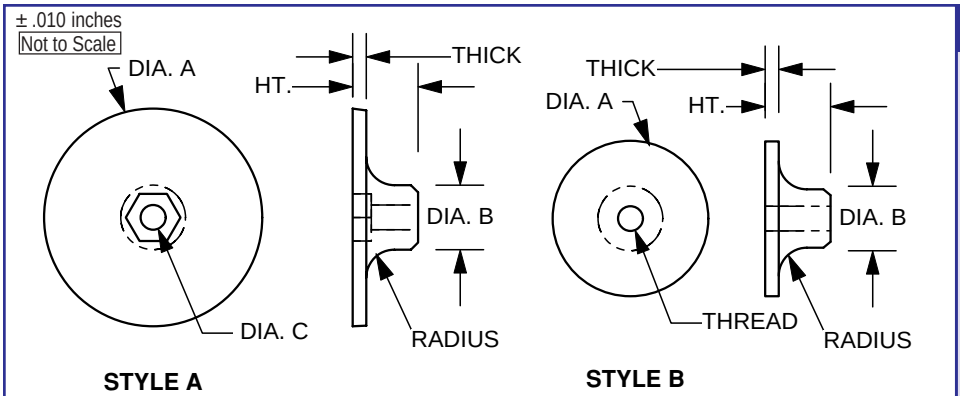
Part No.	A	B	C	DIA.	HOLE	BOLT SIZE
HTS89-07	1.125 [28.6]	.880 [22.3]	.485 [12.3]	.400 [10.2]	.200 [5.1]	10-32
HTS73-01	1.020 [25.9]	.715 [18.2]	.900 [22.9]	.400 [10.2]	.200 [5.1]	10-32
HTS130-10	1.750 [44.5]	.525 [13.3]	.525 [13.3]	.400 [10.2]	.200 [5.1]	10-32

HTS SERIES

Material: Nylon 6/6 (Natural)

Rating: UL94-VO

Application: These horizontal spacers are for common mode chokes requiring voltage isolation. The hole through the center will allow a 10-32 bolt to secure the coil to a PCB, chassis, or to horizontal mounting platforms TM1850 and TM2300 on page 32.



PART No.	DIA. A	DIA. B	HT.	THICK	RAD.	DIA. C	THREAD	BOLT (& Nut)	MAT'L
TR60-B	.615	.250	250	.036	.250	----	6-32	M190	Zytel
TR80-B	.812	.250	.255	.050	.250	----	6-32	M190	Zytel
TR100-B	1.000	.375	.375	.050	.187	----	10-32	M187	Zytel
TR130-A	1.250	.425	.500	.085	.225	.200	----	M187 & M185	Ryton
TR200-A	1.750	.525	.525	.110	.225	.200	----	M187 & M185	Ryton

TR SERIES

Material: Ryton (Black)
Zytel FR50 (Natural)

Rating: UL 94-VO

Application: Toroid Retainers are designed to bolt toroids from .60 to 3.0 inches in diameter to a PCB, chassis, or to mounting platflorms TM1850 and TM2300 on page 32. Series A Toroid Retainers are designed to use a 10/32 bolt and nut, series B are threaded and require a bolt. (all sold separately).

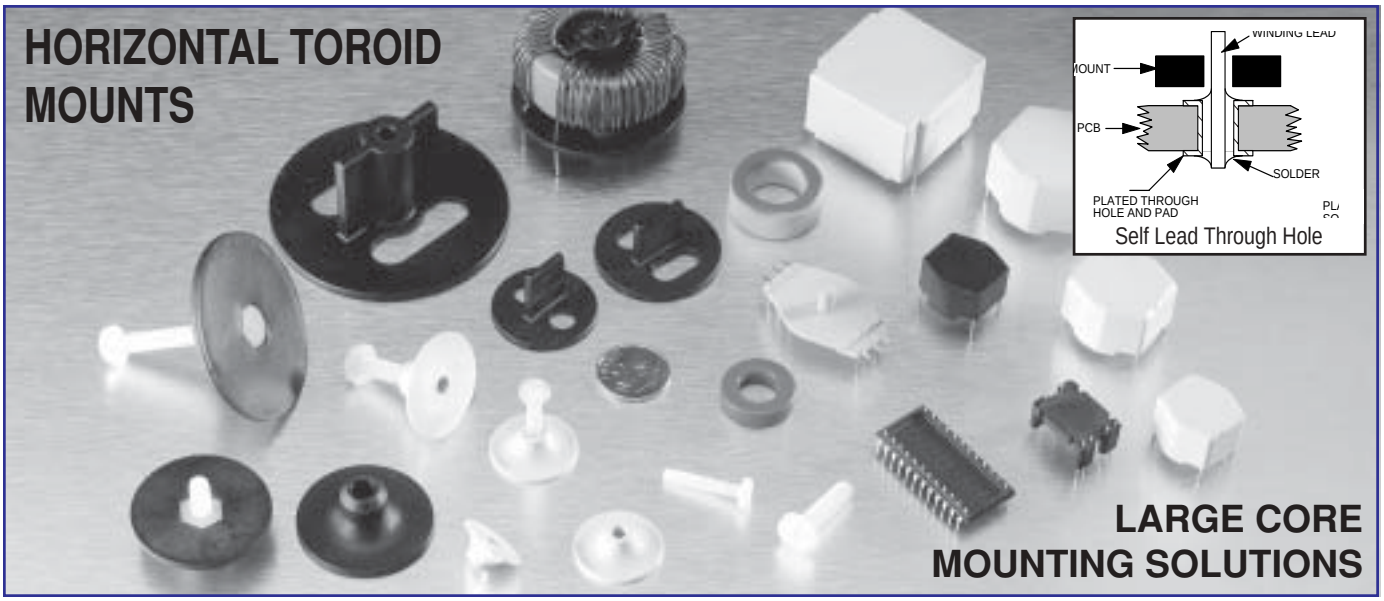
M185: Nylon #10 hex nut

M187: Nylon 10-32 x 1.5 inch bolt

M190: Nylon 6-32 x 1.0 inch bolt

Larger Toroid Retainerson Page 35.

HORIZONTAL TOROID MOUNTS



HTC1208-0 & HTC1208-4

NEW

Material: Nylon 6/6 (Natural)

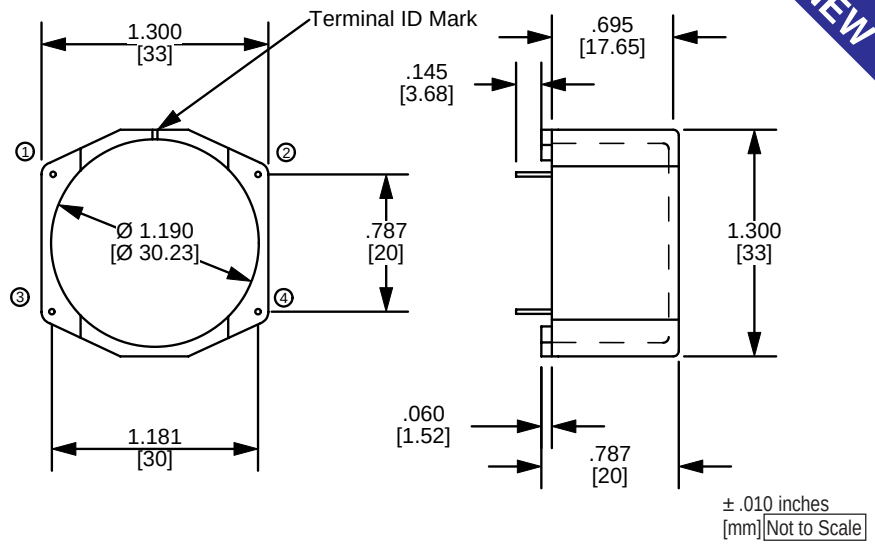
Rating: UL94-VO

4 Terminals: Copper/Zinc .026 x .026 60/40 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: For enclosed horizontal mounting of toroidal inductors and transformers up to 1.200 inches in diameter. Ideal for potting and part number marking. Available with or without terminals in any of the four locations shown.



HTC1500-0 & HTC1500-4

NEW

Material: Nylon 6/6 (Natural)

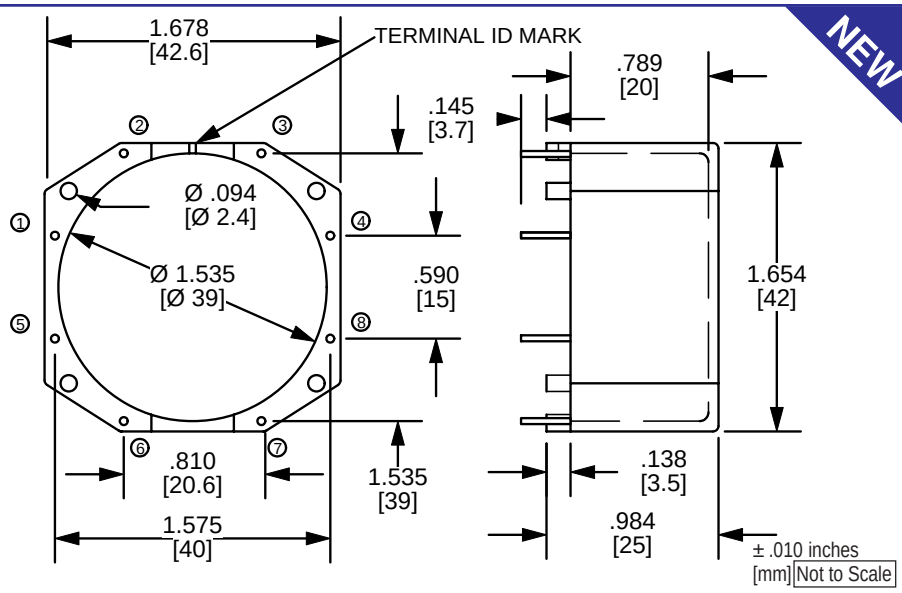
Rating: UL94-VO

4 Terminals: Copper/Zinc .026 x .026 60/40 Tin Plated

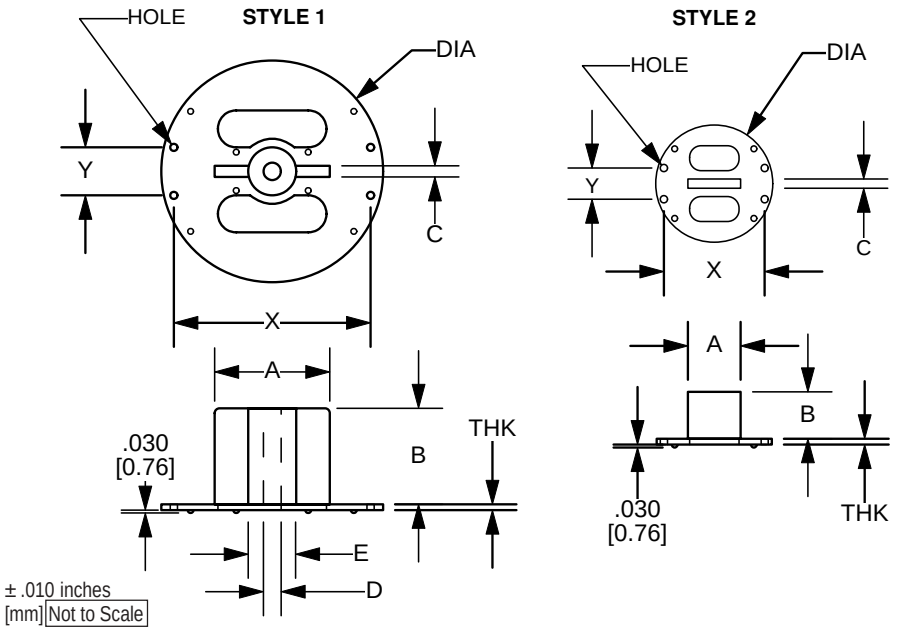
Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: For enclosed horizontal mounting of toroidal inductors and transformers up to 1.500 inches in diameter. Ideal for potting and part number marking. Available with or without terminals in any of the four locations shown.



TCM SERIES



Material: Rynite (Black)

Rating: UL94-VO

4 Terminals: Self leading

Packaging Tray:

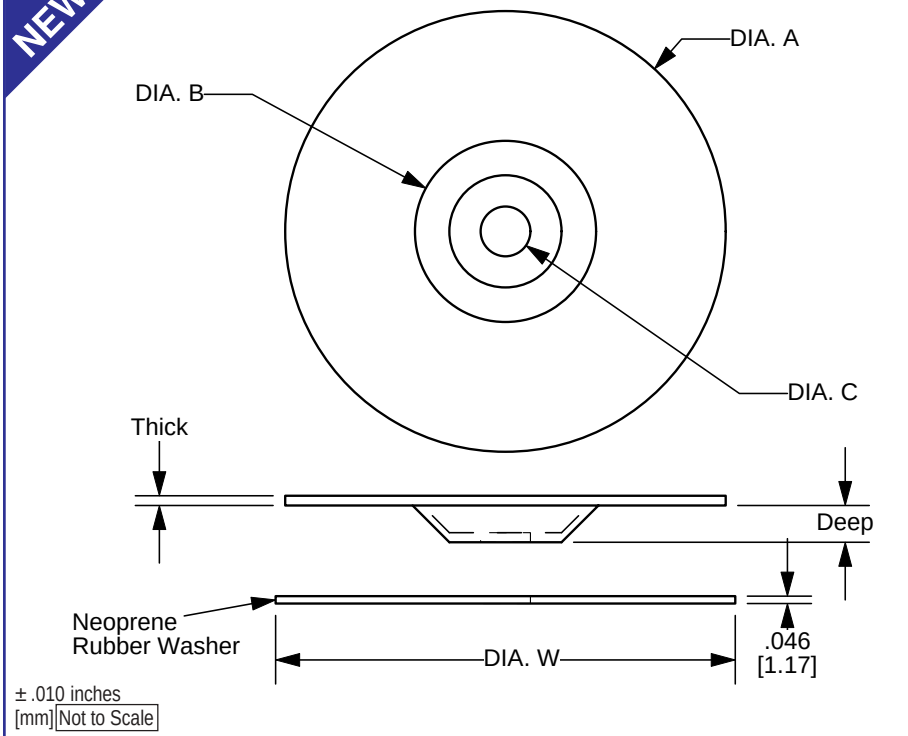
TCM100-04	TY122x140A
TCM120-04	TY122x140-A
TCM170-04	None
TCM230-04	None

Application: For horizontal mounting of toroids utilizing the toroids winding leads to terminate to the PCB. The toroid's leads pass through the holes to be soldered to the PCB. The center post is designed for use in common mode applications where winding separation is important.

Part Number	DIA.	A	B	C	D	E	THK	HOLE	X	Y	Style
TCM100-04	1.00 [25.4]	.457 [11.6]	.575 [14.6]	.085 [2.2]	---------	---------	.048 [1.2]	.053 [1.3]	.825 [20.9]	.300 [7.6]	2
TCM120-04	1.21 [30.7]	.554 [14.1]	.490 [12.4]	.093 [2.4]	---------	---------	.062 [1.6]	.064 [1.6]	1.050[26.7]	.330 [8.4]	2
TCM170-04	1.70 [43.2]	.862 [21.9]	.800 [20.3]	.120 [3.1]	.170 [4.3]	.440 [11.2]	.062 [1.6]	.064 [1.6]	1.40 [35.6]	.500 [12.7]	1
TCM230-04	2.31 [58.7]	1.20 [30.5]	1.00 [25.4]	.120 [3.1]	.170 [4.3]	.500[12.7]	.062 [1.6]	.064 [1.6]	2.050 [52.1]	.500 [12.7]	1

NEW

LARGE TR SERIES

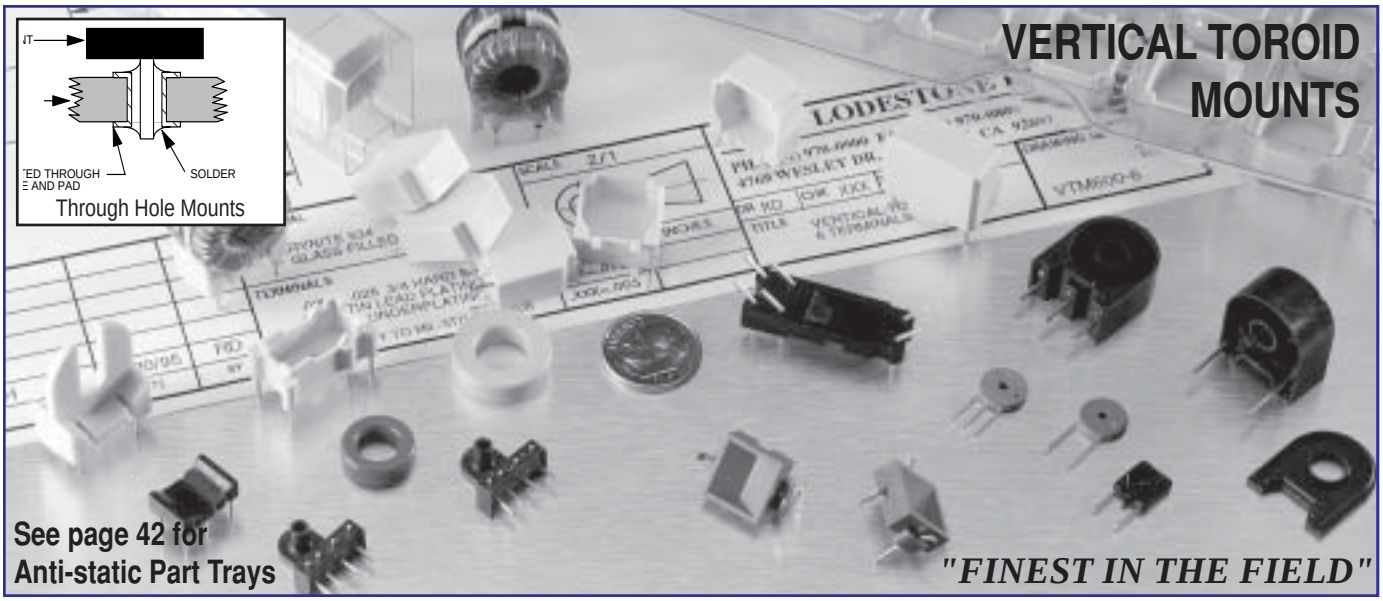


Material: Steel
Electro Zinc Plated

Rating: UL 94-VO

Application: The Toroid Retainer series is designed to bolt toroids from 2.0 to 6.0 inches in diameter to a circuit board or assembly chassis. Neoprene Rubber washers are designed to both insulate and protect the toroid from the preassure of the Retainer. Neoprene washer are sold seperately. Steel Toroid Retainers are designed to be used with a Stainless Steel 5/16 bolt nut, and washer, sold separately.

Part No.	Dia. A	Dia. B	Dia.C	Thick	Deep	Mat'l	Washer	Dia. W	Mat'l
TR275-C	2.75 [69.8]	1.13 [28.7]	.310 [7.8]	.060 [1.5]	.260 [6.6]	Steel	W275-N	2.87 [72.9]	Neo
TR350-C	3.50 [88.9]	1.25 [30.4]	.310 [7.8]	.060 [1.5]	.280 [7.1]	Steel	W350-N	3.68 [93.5]	Neo
TR450-C	4.38 [111.2]	1.38 [35.0]	.310 [7.8]	.080 [2.0]	.300 [7.6]	Steel	W438-N	4.62 [117.3]	Neo



VTM225-2

Material: Phenolic (Black)

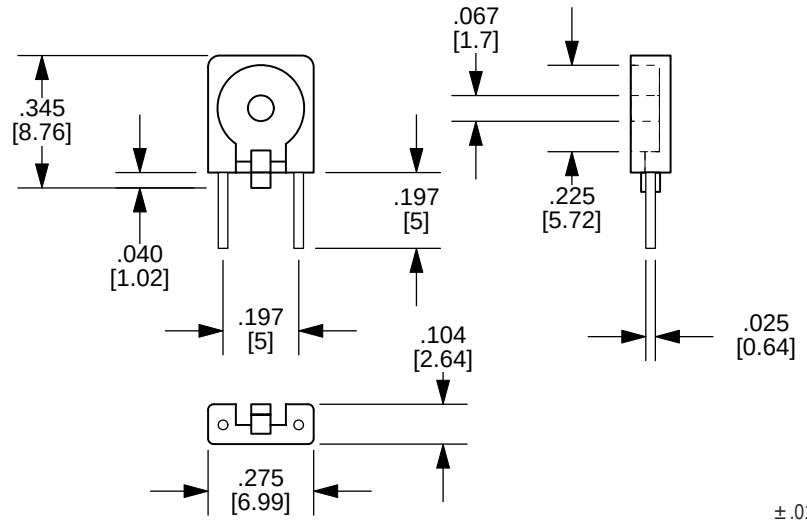
Rating: UL94-VO

2 Terminals: Copper Wire 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY50x50-A

Application: For vertical inductor applications using a wound inductor up to .225 inches in diameter.



± .010 inches
[mm] 2X Size

VTM370-4

Material: Rynite (Black)

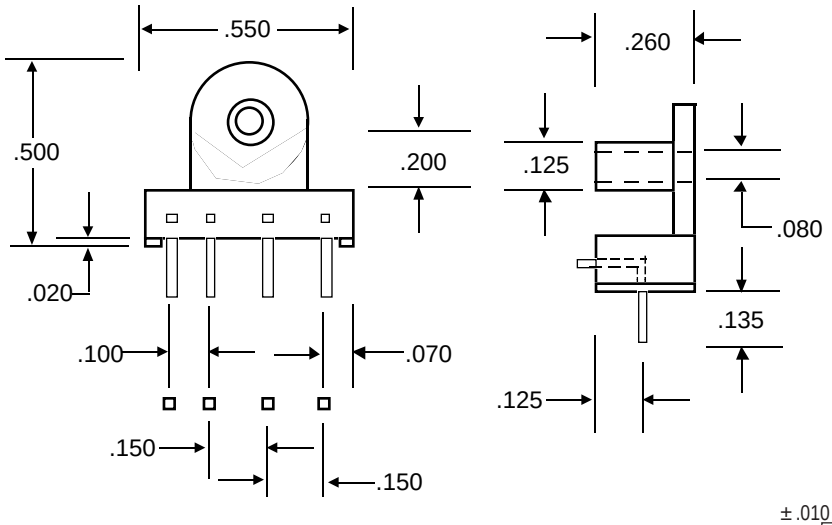
Rating: UL 94-VO

4 Terminals: Phos Bronze .025 x .025 90/10 Tin Plated

Solderability: Per MIL-STD-202 Method 208

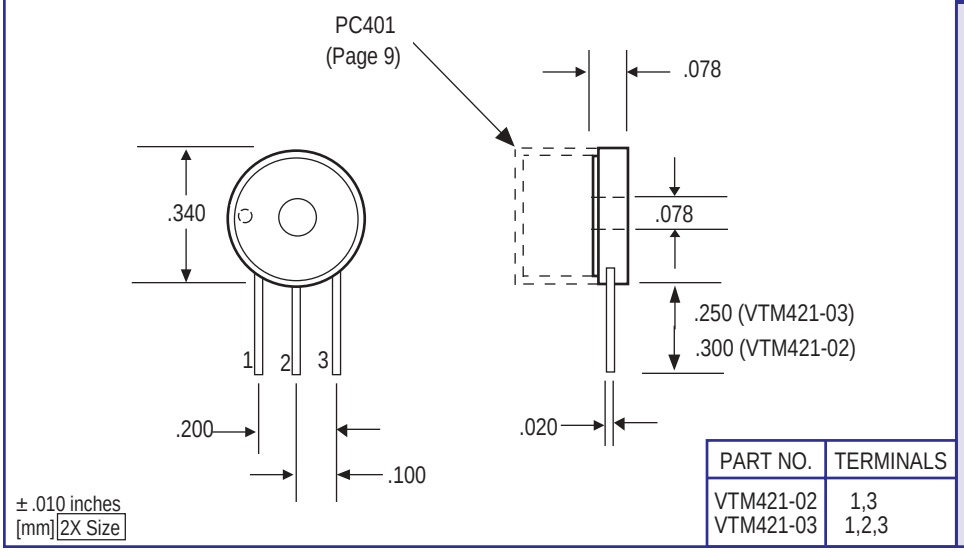
Packaging Tray: TY74x77-A

Application: For vertical mounting of wound toroids up to .370 inches in diameter in transformer and current sensing applications.



± .010 inches
[mm] 2X Size

VTM421-02 & VTM421-03



PART NO.	TERMINALS
VTM421-02	1,3
VTM421-03	1,2,3

Material: Diallyl Phthalate (Green)

Rating: UL 94-VO

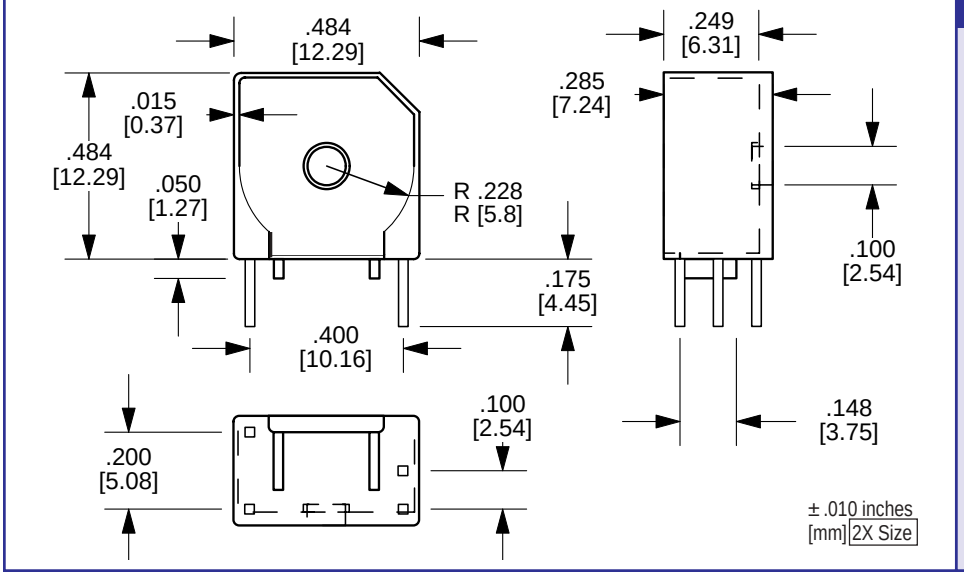
Terminals: Copper Wire .020 Dia.(#24AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY45x70-A

Application: For vertical mounting of wound toroids up to .340 inches. Potting cup PC401 is available for encapsulation of the components on the VTM421 series (sold separately). See page 9.

VTM455-4



Material: Zytel FR50 (Natural)

Rating: UL94-VO

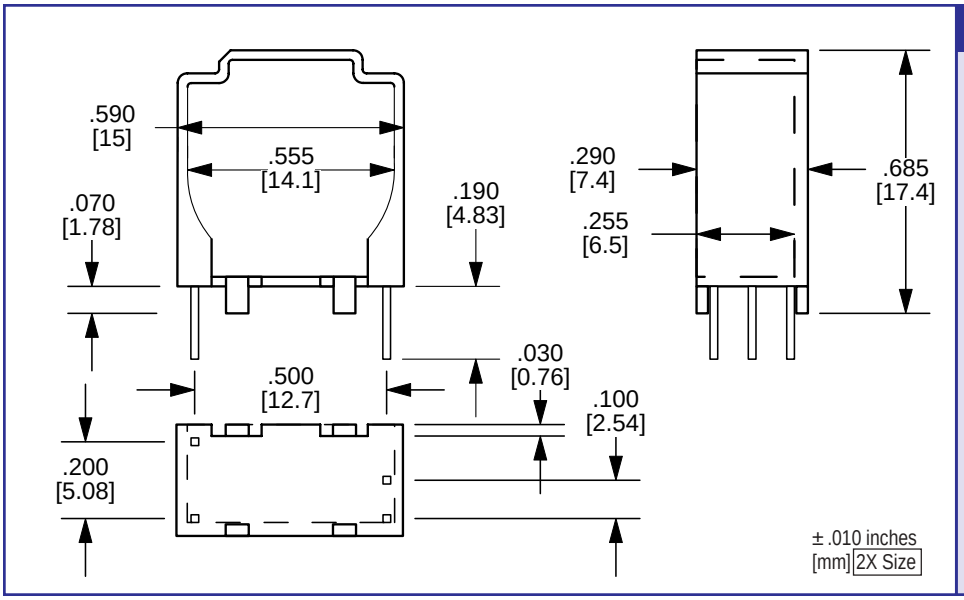
4 Terminals: Copper Wire .020 x .020 60/40 Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY74x77-A

Application: For vertical mounting of wound toroids up to .455 inches in diameter in inductor, transformer and current sensor applications. Also available anti-static packaging tubes.

VTM555-4



Material: Zytel FR50 (Natural)

Rating: UL 94-VO

4 Terminals: Copper Wire .020 x .020 60/40 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY65x100-A

Application: For vertical mounting of wound toroids up to .555 inches in diameter. This product is shipped from Lodestone Pacific in anti-static shipping tubes.

VTM590-3

Material: PBT (Black)

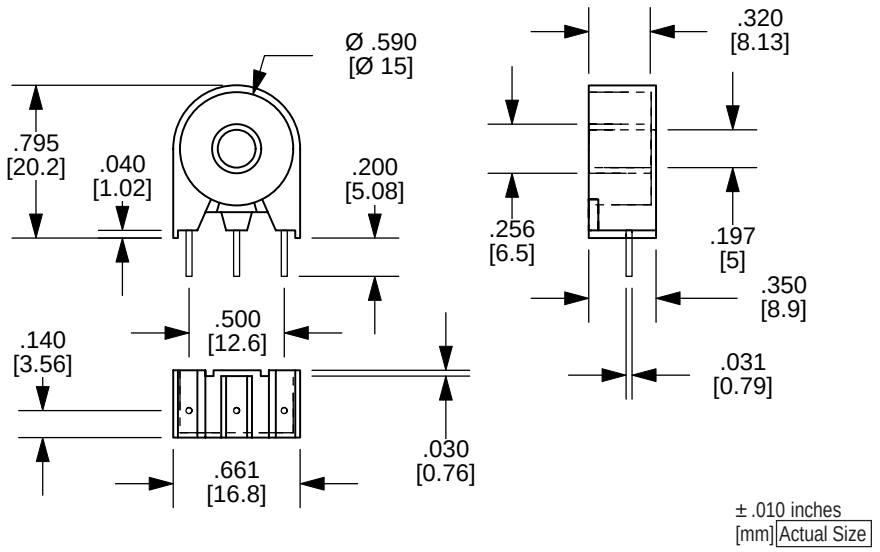
Rating: UL94-VO

3 Terminals: Copper Wire 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY85x116-A

Application: For vertical mounting of wound toroids up to .590 inches in diameter in inductor and current sensor applications.



VTM600-6

Material: Rynite (Tan)

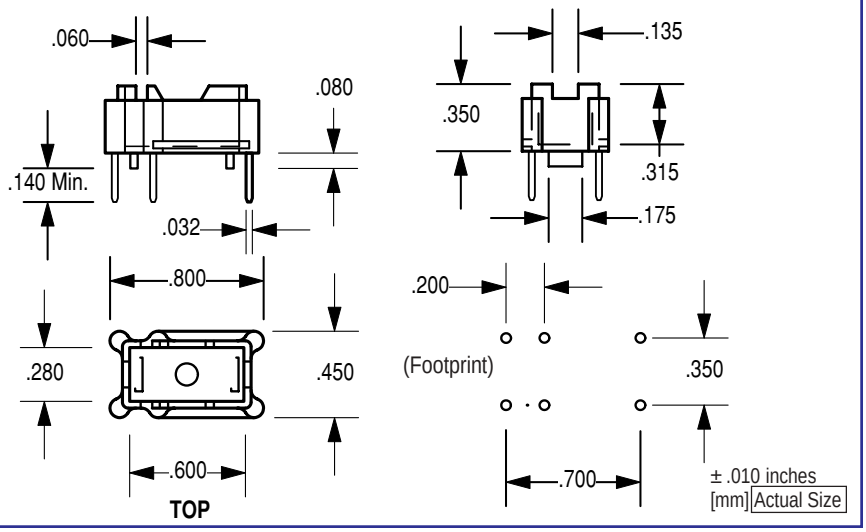
Rating: UL 94-VO

6 Terminals: Copper Wire .025 X .025 90/10 Tin Plate

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY85x116-A

Application: For vertical mounting of wound toroids up to .600 inches in diameter in transformer, current sensing, and gate drive transformer applications.



VTM620-2

Material: PBT (Black)

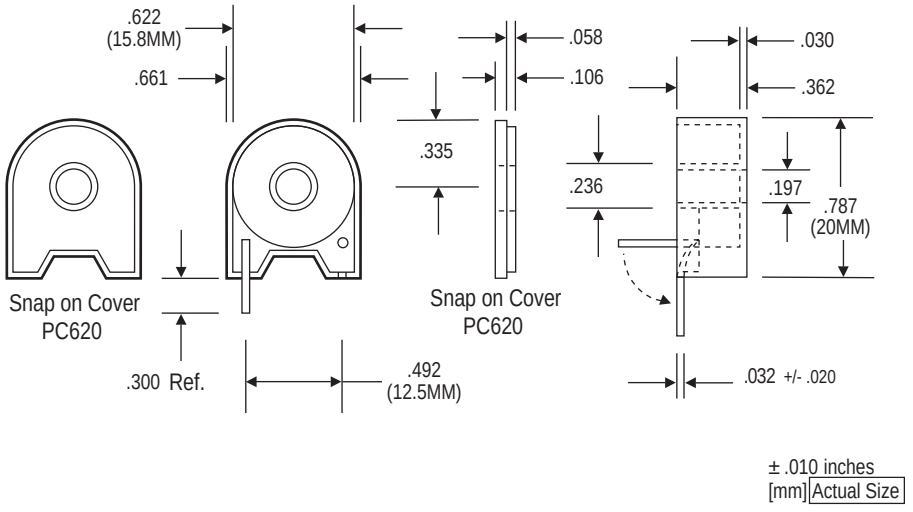
Rating: UL 94-VO

2 Terminals: Copper Wire .032 Dia. (#20AWG) 100% Tin Plate

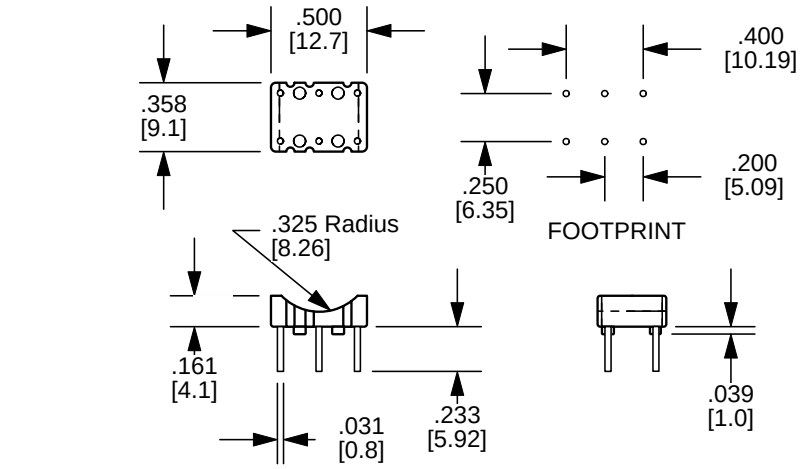
Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY85x116-A

Application: For vertical mounted inductors or current sensors. Terminals are shipped in the horizontal position to facilitate toroid lead connection. Terminals are then moved to the vertical position for circuit board insertion. Optional snap-on cover PC620 is available to seal the assembly.



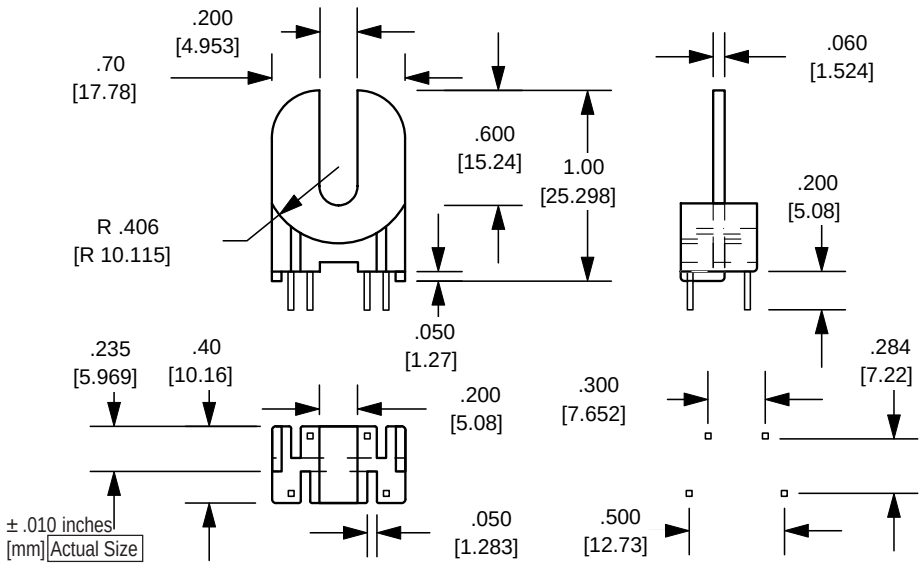
VTM650-6



Material: Phenolic (Black)
Rating: UL94-VO
6 Terminals: Copper Wire 90/10 Tin Plate
Solderability: Per MIL-STD-202 Method 208
Packaging Tray: TY85x116-A

Application: For vertical mounting of inductor, transformer and current sensor applications using a wound toroid up to .650 inches in diameter.

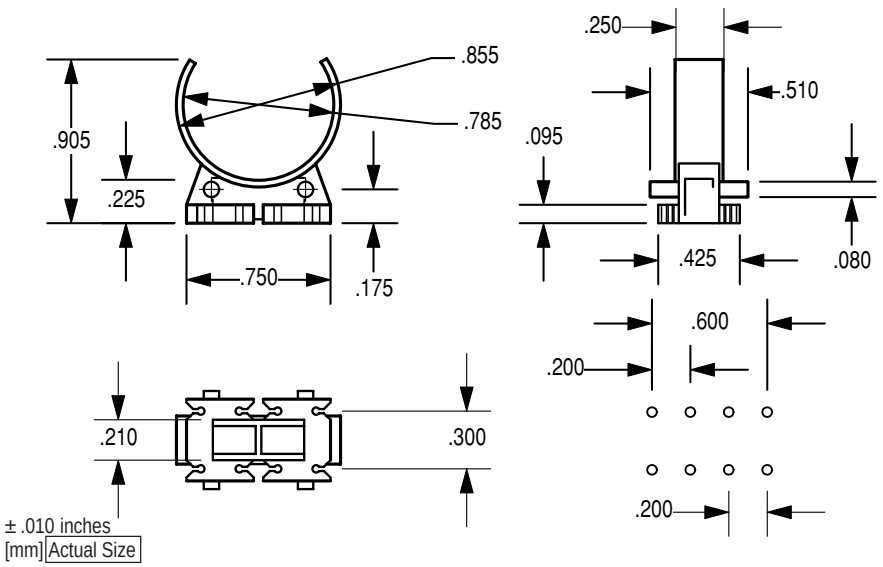
VTM681-4



Material: Rynite (Natural)
Rating: UL94-VO
4 Terminals: Copper Zinc .026 x .026 60/40 Tin Plate Nickel Flash
Solderability: Per MIL-STD-202 Method 208
Packaging Tray: TY85x116-A

Application: Designed for vertical mounting of up to two .800 inch wound toroids. Also suitable for current sensing applications.

VTM800-08



Material: Zytel FR50 (Natural)
Rating: UL 94-VO
8 Terminals: Self leading #20 AWG
Solderability: Per MIL-STD-202 Method 208
Packaging Tray: TY122x140-A

Application: Designed for vertical mounting of .800 inch unwound toroids. The mount is designed to have the unwound core placed in the yoke, then to have the wire winding surround the core and yoke, holding the two in a single unit. Up to 8 winding leads are then snapped into the mount base. Best suited for #20 (.034) AWG.

VTM955-4

Material: Nylon 6/6 (Natural)

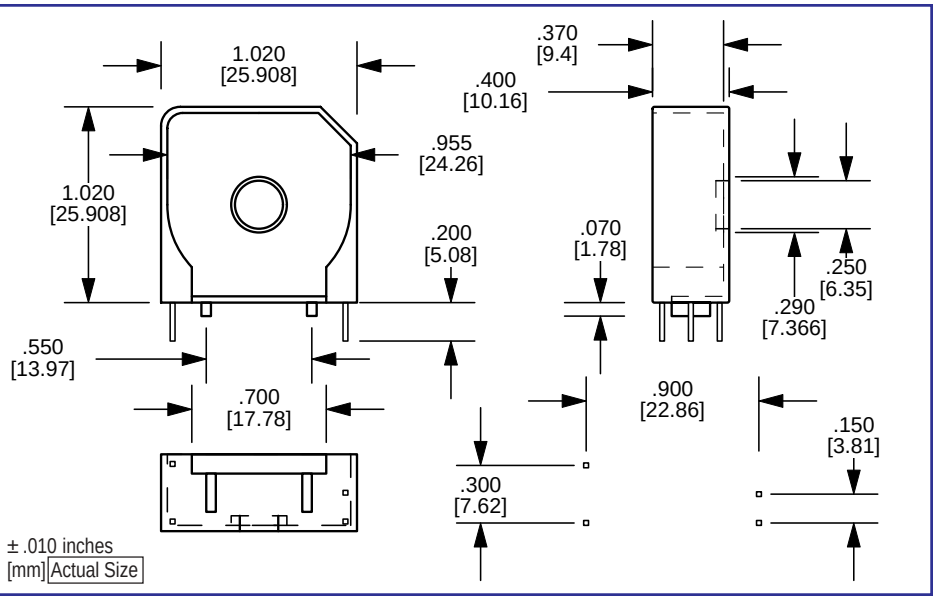
Rating: UL94-VO

4 Terminals: Copper Zinc .026 x .026 60/40 Tin Plate Nickel Flash

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY122x140-A

Application: For vertical mounting of wound toroids up to .955 inches in diameter. Also available anti-static packaging tubes.



10 TERMINAL VTM SERIES

NEW

Material: Nylon 6/6 (Natural)

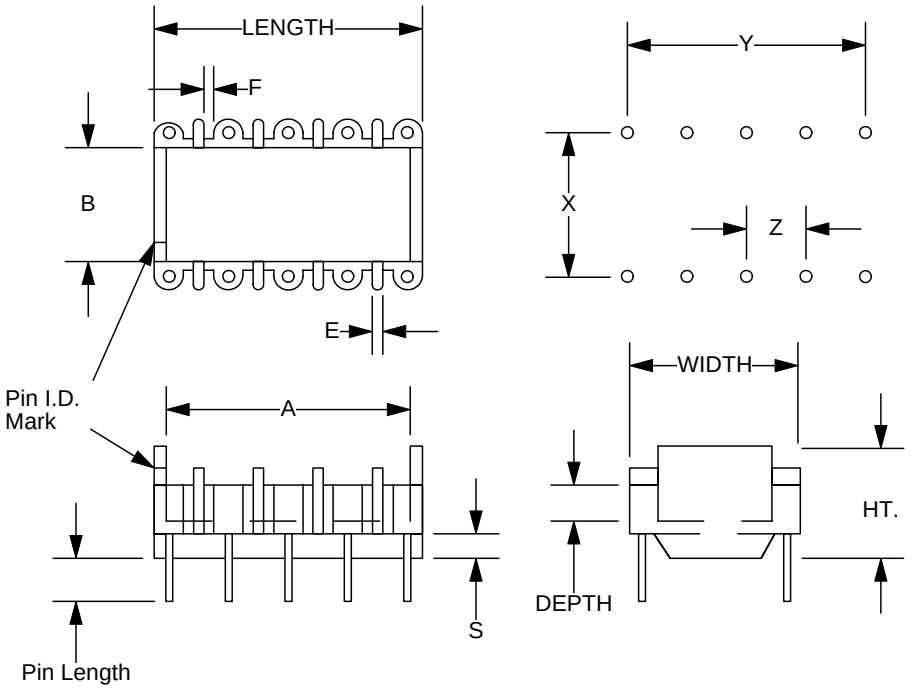
Rating: UL94-VO

10 Terminals: Copper Zinc 60/40 Tin Plate Nickel Flash

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY122x140-A

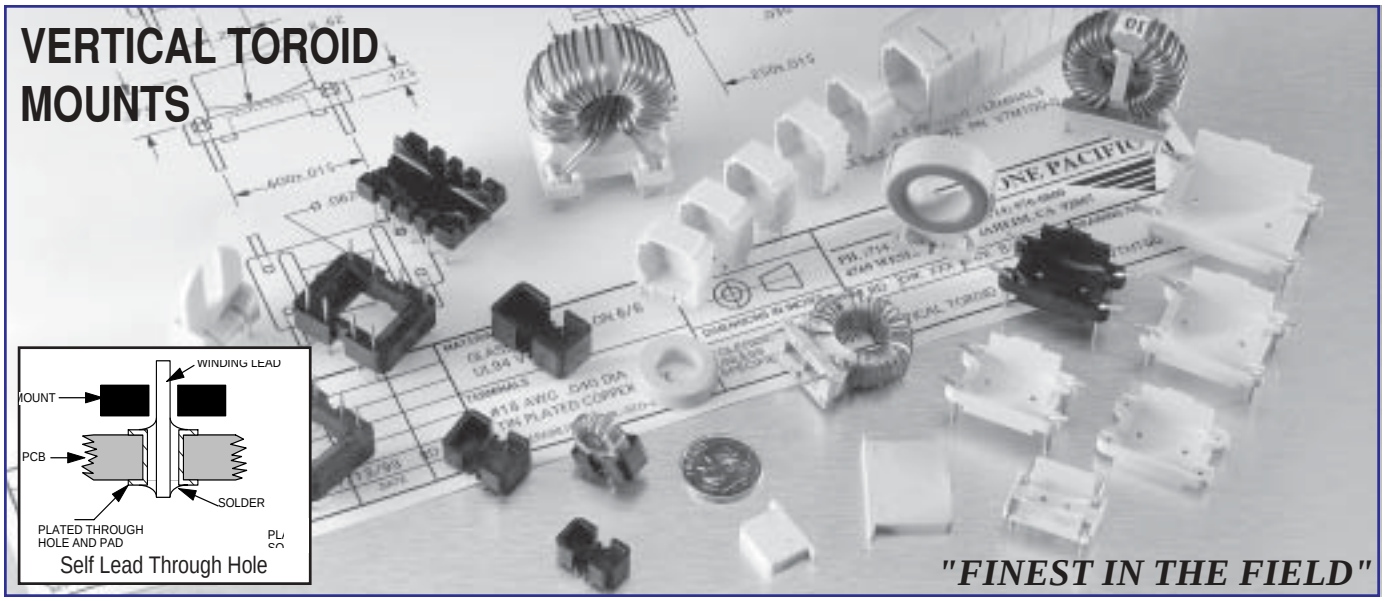
Application: For vertical mounting of wound toroids from .600 inches to 1.220 in diameter. Coils can be glued onto the cup and the up to 10 terminals are soldered under the mount.. Several smaller toroids can be mounted with diameters oriented in the direction of the B dimension.

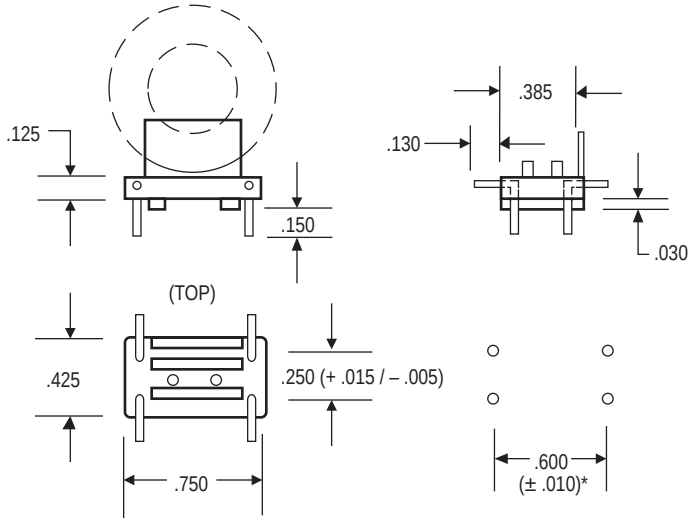


Part No.	Term. Size	Pin Length
VTM880-10	.020x.020 [.50x.50]	.157 [4.0]
VTM1020-10	.027x.027 [.70x.70]	.177 [4.5]
VTM1220-10	.027x.027 [.70x.70]	.177 [4.5]

Part No.	Length	Width	A	B	Ht.	Depth	E	F	X	Y	Z
VTM880-10	.917 [23.3]	.618 [15.7]	.850 [21.6]	.380 [9.65]	.433 [11.0]	.155 [3.9]	.031 [.79]	.031 [.79]	.500 [12.7]	.800 [20.3]	.200 [5.08]
VTM1020-10	1.10 [28.0]	.708 [18.0]	1.00 [25.4]	.467 [11.9]	.472 [12.0]	.148 [3.8]	.055 [1.4]	.040 [1.0]	.590 [15.0]	.984 [25.0]	.246 [6.25]
VTM1220-10	1.30 [33.0]	.906 [23.0]	1.17 [29.7]	.670 [26.4]	.512 [13.0]	.120 [3.1]	.086[2.2]	.050 [1.3]	.787[20.0]	1.181 [30.0]	.295 [7.50]

VERTICAL TOROID MOUNTS





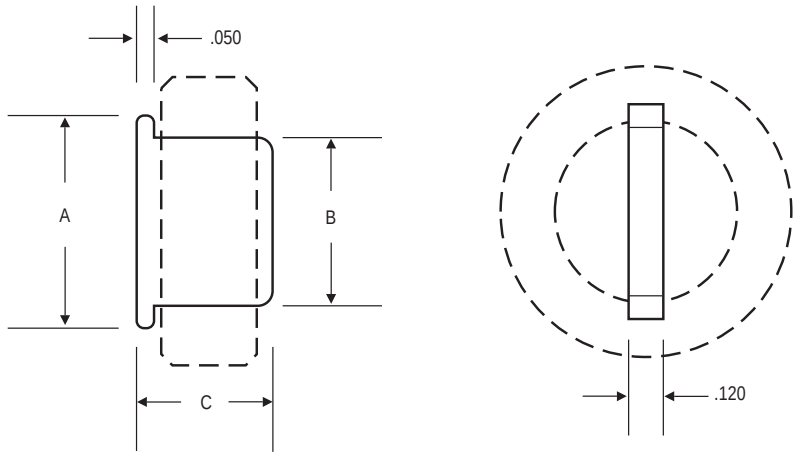
± .010 inches
[mm] Actual Size

(* Tolerance at end of terminal)

VTM100-4

Material:	Nylon 6/6 (Tan)
Rating:	UL 94-VO
4 Terminals:	Copper Wire .040 Dia. (#18 AWG) 100% Tin Plated
Solderability:	Per MIL-STD-202 Method 208
Packaging Tray:	TY85x116-A

Application: An industry standard for vertical mounting of wound toroids up to 1.15 inches in diameter. VTM 100-0 is availiable with .037 through holes instead of terminals.



± .010 inches
[mm] Not to Scale

TS SERIES

Material: 6/6 Nylon (Natural)

Rating: UL 94-VO

Application: Spacers are for common mode chokes requiring voltage isolation

Part No.	A	B	C
TS33-13	.460 [11.7]	.315 [8.0]	.285 [7.2]
TS48-12	.660 [16.7]	.465 [11.8]	.365 [9.3]
TS52-03	.660 [16.7]	.480 [12.2]	.412 [10.5]
TS52-05	.660 [16.7]	.510 [12.9]	.600 [15.2]
TS59-02	.730 [18.5]	.577 [14.6]	.600 [15.2]
TS59-06	.730 [18.5]	.560 [14.2]	.412 [10.5]
TS73-01	.930[23.6]	.720 [18.2]	.700 [17.8]
TS73-11	.930 [23.6]	.722 [18.3]	.430 [10.9]
TS89-07	1.025 [26.0]	.875 [22.2]	.690 [17.5]
TS94-14	1.030 [26.1]	.930 [23.6]	.670 [17.0]
TS130-10	1.460 [37.1]	1.290 [32.8]	.740 [18.8]
TS140-08	1.372 [34.8]	1.212 [30.8]	.875 [22.2]

VTM SERIES

Material: RTP205FR (Natural)

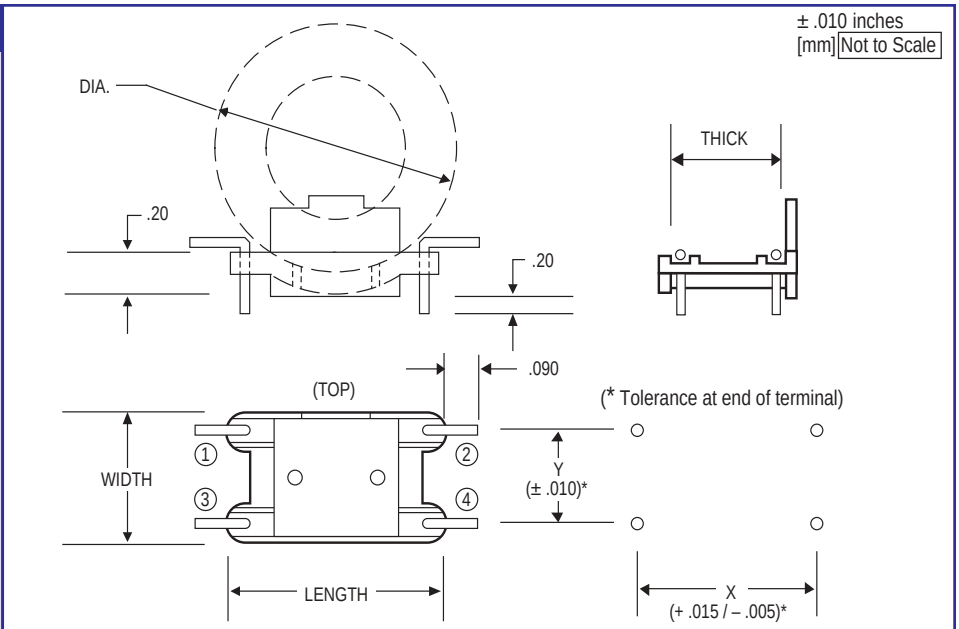
Rating: UL 94-VO

4 Terminals: Copper Wire .050 Dia. (#16 AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY122x140-A VTM120 size only.

Application: For vertical mounting of wound toroids from 1.00 to 2.8 inches in diameter. The VTM series is available with the four terminals shown or without terminals (.048 through hole). Non-standard through holes of .067, .082 and .089 are available. #16 AWG (.050) is the only terminal diameter available.



PART NO.	LENGTH	WIDTH	THICK.	DIA.	X	Y	TERMINALS
VTM120-0 VTM120-4	1.00 [25.4]	.60 [15.24]	.51 [12.95]	1.20 [30.48]	.80 [20.32]	.40 [10.16]	None (.048 Holes) 4=#16 AWG (.050)
VTM160-0 VTM160-4	1.10 [27.94]	.80 [20.32]	.71 [18.03]	1.60 [40.64]	.90 [22.86]	.60 [15.24]	None (.048 Holes) 4=#16 AWG (.050)
VTM254-0 VTM254-4	1.40 [35.56]	.90 [22.86]	.81 [20.57]	2.54 [64.51]	1.20 [30.48]	.70 [17.78]	None (.048 Holes) 4=#16 AWG (.050)
VTM280-0 VTM280-4	1.70 [43.18]	1.10 [27.79]	1.01 [25.65]	2.80 [71.12]	1.50 [38.1]	.90 [22.86]	None (.048 Holes) 4=#16 AWG (.050)

KM SERIES

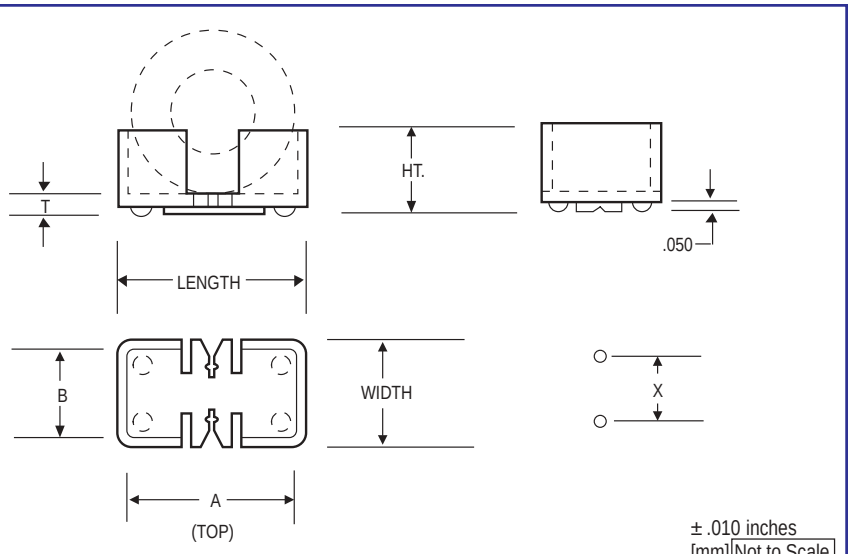
Material: Vydyne 909 (Black)

Rating: UL 94-VO

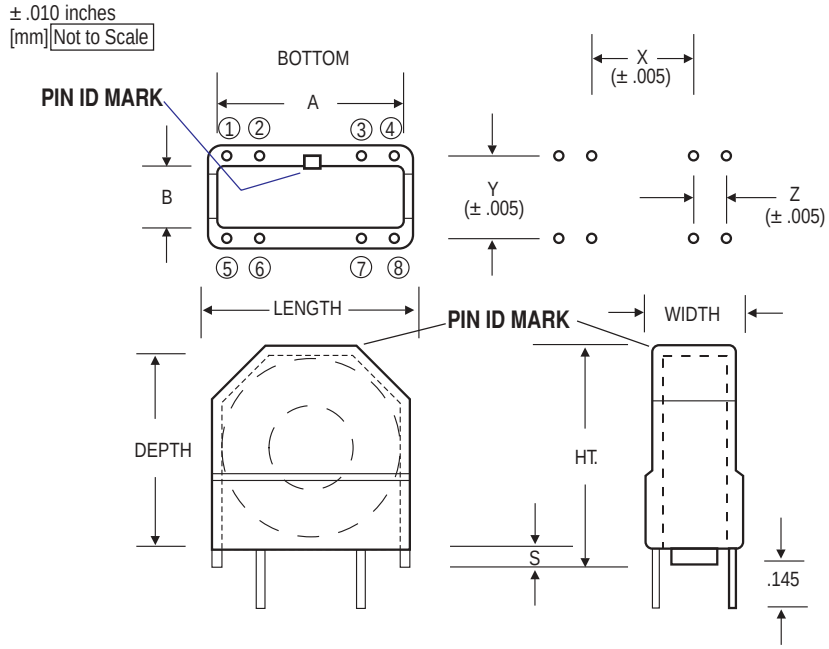
2 Terminals: Self Leading

Solderability: Per MIL-STD-202 Method 208

Application: "Klip" mounts are designed as a "self-leaded" inductor mount for wound toroids from .030 to 1.10 inches in diameter. The molded "Klip" holds the toroid leads for circuit board termination. This product is the patented concept of **Pulse Engineering Inc.**



PART NO.	LENGTH	WIDTH	A	B	HT.	T	X	KLIP WIRE SIZE	TOROID DIA.	PACKING TRAY
KM44-01 KM44-02	.580 [14.73]	.340 [8.63]	.480 [12.19]	.240 [6.09]	.280 [7.11]	.110 [2.79]	.220 [5.58]	24-23 AWG 22-21 AWG	.450	TY74x77-A
KM50-01 KM50-02	.650 [16.51]	.450 [11.43]	.550 [13.97]	.350 [8.89]	.300 [7.62]	.110 [2.79]	.300 [7.62]	24-21 AWG 20-18 AWG	.550	TY74x77-A
KM68-01 KM68-02	.830 [21.08]	.450 [11.43]	.730 [18.54]	.350 [8.89]	.370 [9.39]	.110 [2.79]	.300 [7.62]	24-21 AWG 20-18 AWG	.725	TY65x100-A
KM80-01 KM80-02	.950 [24.13]	.600 [15.24]	.850 [21.59]	.500 [12.7]	.420 [10.66]	.110 [2.79]	.450 [11.43]	22-19 AWG 18-17 AWG	.850	TY122x140-A
KM106-01 KM106-02	1.250 [31.75]	.700 [17.78]	1.150 [29.21]	.600 [15.24]	.580 [14.73]	.130 [3.30]	.500 [12.7]	22-19 AWG 18-17 AWG	1.150	TY122x140-A



VTC SERIES

Material: Zytel FR50 (Natural)

Rating: UL 94-VO

Terminals: Copper / Zinc
.026 x .026
90/10 Tin Plated

Solderability: Per MIL-STD-202
Method 208

Application: A European standard for enclosed vertical mounting wound toroids from .500 to 1.46 inches in dia. Four terminals in positions 2, 3, 6, 7 is standard. Any terminal pattern can be provided. Example; VTC774-5/12356. (five terminals in positions 1, 2, 3, 5, 6). Anti-static shipping tubes are available for all VTC's but are standard with VTC512 and VTC613.

*Plates available to enclose the bottom of these VTC's which allow for self leading of heavier guage wire. Contact Lodestone Pacific for more information.

PART NO.	LENGTH	WIDTH	A	B	HT.	DEPTH	S	X	Y	Z	TRAY	TUBES
VTC 512-4	.750 [19.0]	.350 [9.0]	.520 [13.2]	.270 [6.85]	.630 [16.0]	.527 [13.4]	.063 [1.6]	.590 [15.0]	.197 [5.0]	—	TY74x77-A	Standard
VTC 613-4	.710 [18.0]	.510 [13.0]	.630 [16.0]	.315 [8.0]	.787 [20.0]	.685 [17.5]	.063 [1.6]	.197 [5.0]	.394 [10.0]	.197 [5.0]	TY85x116-A	Standard
VTC 774-4	.905 [23.0]	.610 [15.5]	.790 [20.0]	.394 [10.0]	.984 [25.0]	.889 [22.6]	.055 [1.4]	.394 [10.0]	.492 [12.5]	.197 [5.0]	TY85x116-A	Standard
VTC 935-4 *Plate Available	1.060 [27.0]	.710 [18.0]	.950 [24.10]	.512 [13.0]	1.180 [30.0]	1.060 [27.0]	.060 [1.50]	.492 [12.5]	.590 [15.0]	.197 [5.0]	TY122x140-A	Optional
VTC 1156-4 *Plate Available	1.260 [32.00]	.710 [18.0]	1.180 [30.0]	.512 [13.0]	1.378 [35.0]	1.240 [31.5]	.080 [2.0]	.492 [12.5]	.590 [15.0]	.295 [7.5]	None	Optional
VTC 1227-4 *Plate Available	1.378 [35.0]	.905 [23.0]	1.30 [33.0]	.669 [17.0]	1.457 [37.0]	1.300 [33.0]	.080 [2.0]	.590 [15.0]	.787 [20.0]	.295 [7.5]	None	Optional
VTC 1468-4 *Plate Available	1.653 [42.0]	1.100 [28.0]	1.555 [39.50]	.846 [21.5]	1.770 [45.0]	1.660 [42.2]	.080 [2.0]	.984 [25.0]	.984 [25.0]	.295 [7.5]	None	Optional

VTM1050-10

Material: Phenolic (Black)

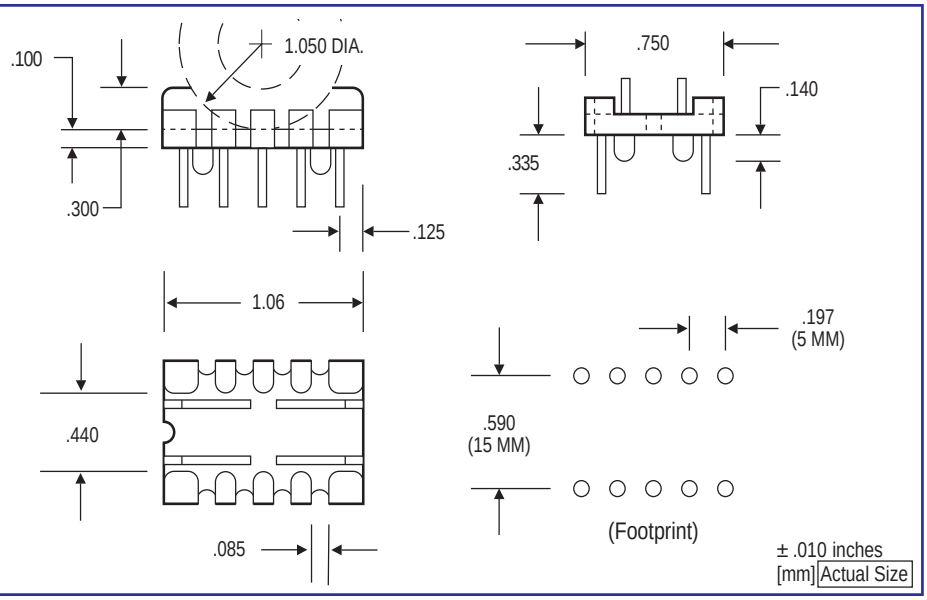
Rating: UL 94-VO

10 Terminals: Copper Wire .040 Dia. (#18 AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: TY122x140-A

Application: For vertical mounting of wound toroids up to 1.1 inches in diameter requiring up to 10 terminations.



VTM1060-08

Material: Zytel FR50 (Natural)

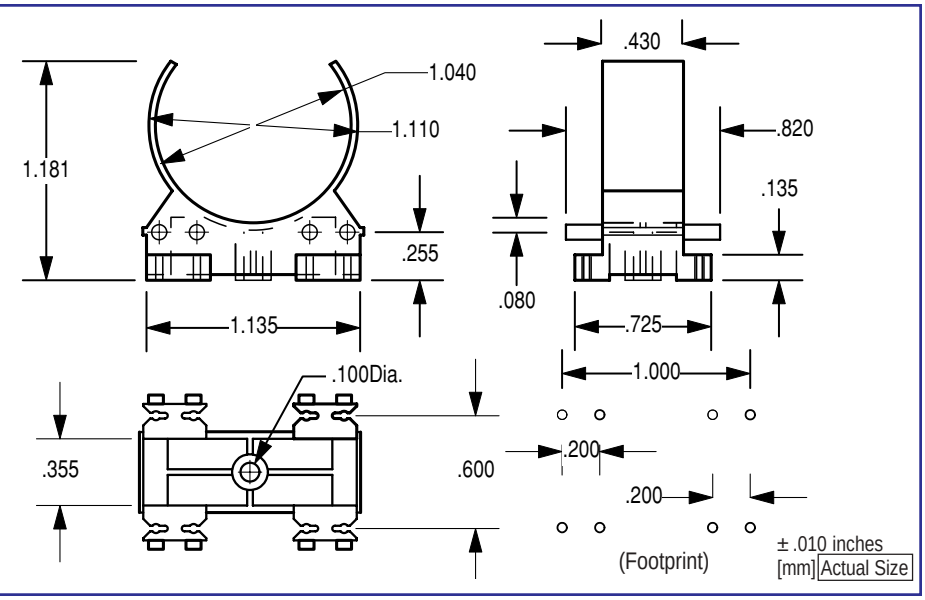
Rating: UL 94-VO

8 Terminals: Self leading #16 to 18 AWG

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: Designed for vertical mounting of 1.06 inch unwound toroids. The mount is designed to have the unwound core placed in the yoke, then to have the wire winding cover the core and yoke, holding the two in a single unit. Up to 8 winding leads are then snapped into the mount base. Best suited for #16 (.048) through #18 (.040) AWG.



VTM1300-14

Material: Phenolic (Black)

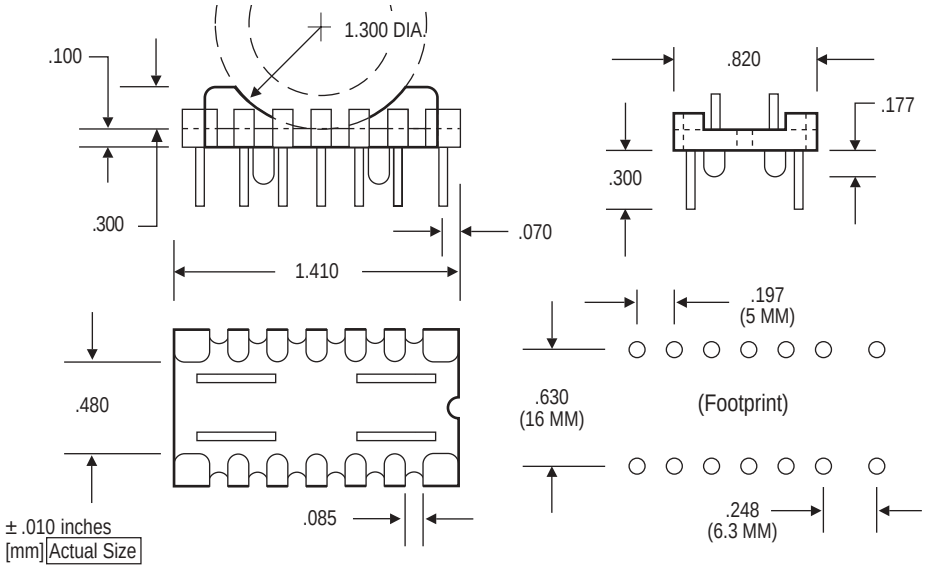
Rating: UL 94-VO

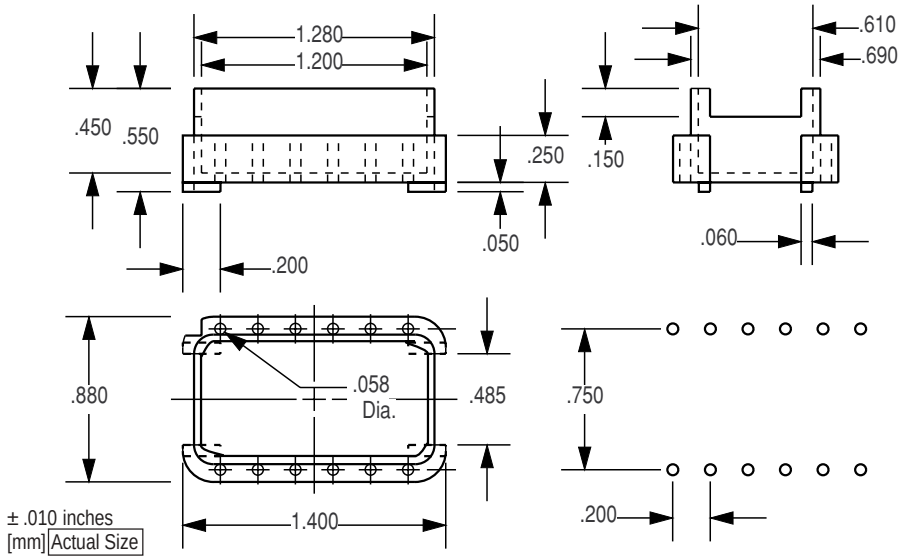
14 Terminals: Copper Wire .040 Dia. (#18 AWG) 100% Tin Plated

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: For vertical mounting of wound toroids up to 1.3 inches in diameter requiring up to 14 terminations.





VTB 1200-012

Material: Rynite (Black)

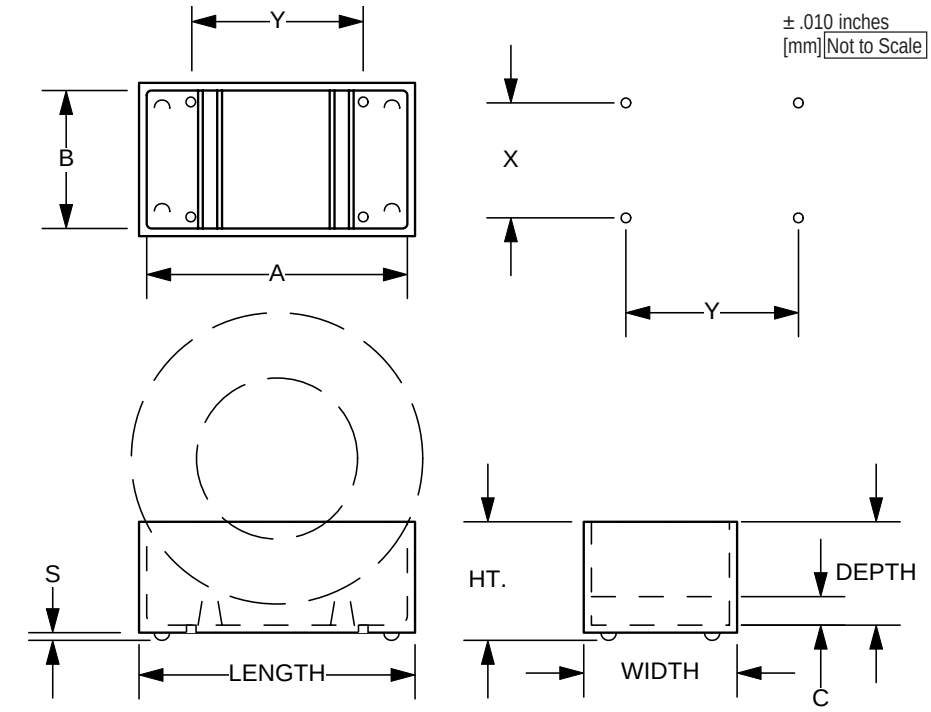
Rating: UL 94-VO
MIL-STD-2000

12 Terminals: Self leading 12 leads up to .054 Dia. (#16AWG)

Solderability: Per MIL-STD-202 Method 208

Packaging Tray: None

Application: For vertical mounting of wound toroids up to 1.40 inches in Dia. The 12 through holes allow self leading of up to 12 component leads. The rectangular cup shape facilitates potting the toroid firmly in place. Formerly VTB1200.



VTB SERIES

Material: DAP (Red & Black)
Rynite (Black)
Nylon 6/6 (Natural)

Rating: UL94-VO

Packaging Tray:
(Cup on side with toroid attached)

VTB700-04	TY85x116-A
VTB900-02	TY122x140-A
VTB1090-04	TY122x140-A
VTB1100-03	None
VTB1350-04	None
VTB1850-04	None
VTB2050-0X	None
VTB2200-04	None

Application: For vertical mounting of wound toroids. The toroid leads go through the cup holes for PCB soldering. Potting material or epoxy can be used to hold the toroids in the cups.

VTB800-02 and VTM900-02 have only two terminal holes along the center line.

PART NO.	LENGTH	WIDTH	A	B	C	HT.	DEPTH	S	Y	X	Mat'l
VTB700-04	.795[20.1]	.480 [12.1]	.755 [19.1]	.440 [11.1]	—	.340 [8.6]	.275 [6.9]	.045 [1.1]	.625 [15.8]	.375 [9.5]	Rynite
VTB800-02	.825 [20.9]	.430 [10.9]	.780 [19.8]	.385 [9.8]	—	.295 [7.5]	.230 [5.8]	.035 [.8]	.300 [7.6]	-----	Zytel
VTB900-02	1.00 [25.4]	.500 [12.7]	.950 [24.1]	.450 [11.4]	—	.420[10.6]	.375 [9.5]	.020 [.5]	.800 [20.3]	-----	DAP
VTB1090-04	1.13 [28.7]	.545 [13.8]	1.08 [27.4]	.490 [12.4]	—	.450 [11.4]	.405 [10.2]	.015 [.4]	.800 [20.3]	.400 [10.1]	Rynite
VTB1100-03	1.135 [28.8]	.695 [17.6]	1.070 [27.1]	.630 [16.0]	—	.400 [10.1]	.330 [8.4]	.030 [.76]	.700 [19.5]	.500 [12.7]	DAP
VTB1350-04	1.435 [36.4]	.795 [20.1]	1.355 [34.4]	.715 [18.1]	.150 [3.8]	.575 [14.6]	.500 [12.7]	.040 [1.0]	.900 [22.8]	.600 [15.2]	Rynite
VTB1850-04	1.940 [49.2]	.900 [22.8]	1.865 [47.3]	.825 [20.9]	.190 [4.8]	.780 [19.8]	.700 [17.7]	.040 [1.0]	1.200 [30.4]	.700 [17.7]	DAP
VTB2050-00	2.161 [54.9]	1.102 [28.0]	2.080 [52.8]	1.020 [25.9]	-----	.512 [13.0]	.342 [8.7]	-----	-----	-----	Zytel
VTB2200-04	2.290 [58.1]	1.105 [28.0]	2.210 [56.1]	1.025 [26.0]	.150 [3.8]	.920 [23.3]	.840 [21.3]	.040 [1.0]	1.500 [38.1]	.900 [22.8]	DAP

ANTISTATIC PARTS TRAYS

Phone (800) 694-8089 • Fax (714) 970-0800

Lodestone Pacific has developed a line of anti-static parts trays for its toroid mounts. Since it is important to protect the terminals of wound components, trays are ideal for handling components during winding, or for delivering the finished component to PCB insertion. The trays nest for ease of transport and storage, or when turned 180°, stack to protect the components in each cavity. There is an optional cover, TY1000-A , that is common to all trays and is priced separately. The cover can be used with each tray, or as the top of a stack of trays. Lodestone Pacific trays are sold separately and toroid mounts are not generally packaged in trays for delivery.

PRODUCTION These trays are ideal for the efficient and organized handling of parts as they move through production and Quality Control. Cavity numbers facilitate the accurate counting of parts during production and packaging. Each tray is designed to have room for a part number sticker, bar code label, or Quality Control Stamp.

SHIPMENT These trays are ideal for the safe clean shipment of completed products. Each tray is 8.75 by 11.75 inches and are designed to fit in a 9 by 12 inch box or carton. Since magnetic devices are heavy for their size, it is important that they are packaged properly. These trays were designed so that a 9 by 12 by 10 inches high box of magnetic components in trays will weigh less that 30 lbs. Boxes and cartons over 30 lbs are more likely to be damaged when shipped by common carrier.

PCB INSERTION These trays provide for the safe and efficient delivery of the components to the PCB insertion operation. Each tray cavity is numbered and each tray can have a part number label, a bar code label and a Quality Control stamp to facilitate acceptance by the package recipient. The trays can be moved to the PCB insertion operation without additional handling where damage can occur, and are ideal for automatic pick and place operations.

ENVIRONMENTAL ISSUES More traditional styrofoam packaging is being discouraged by product recipients because small fragments are a source of contamination, and it is a difficult and costly packaging filler to dispose of. In addition to the Lodestone Pacific trays being anti-static and reusable, they have a material marking that allows effective recycling of the PVC material.

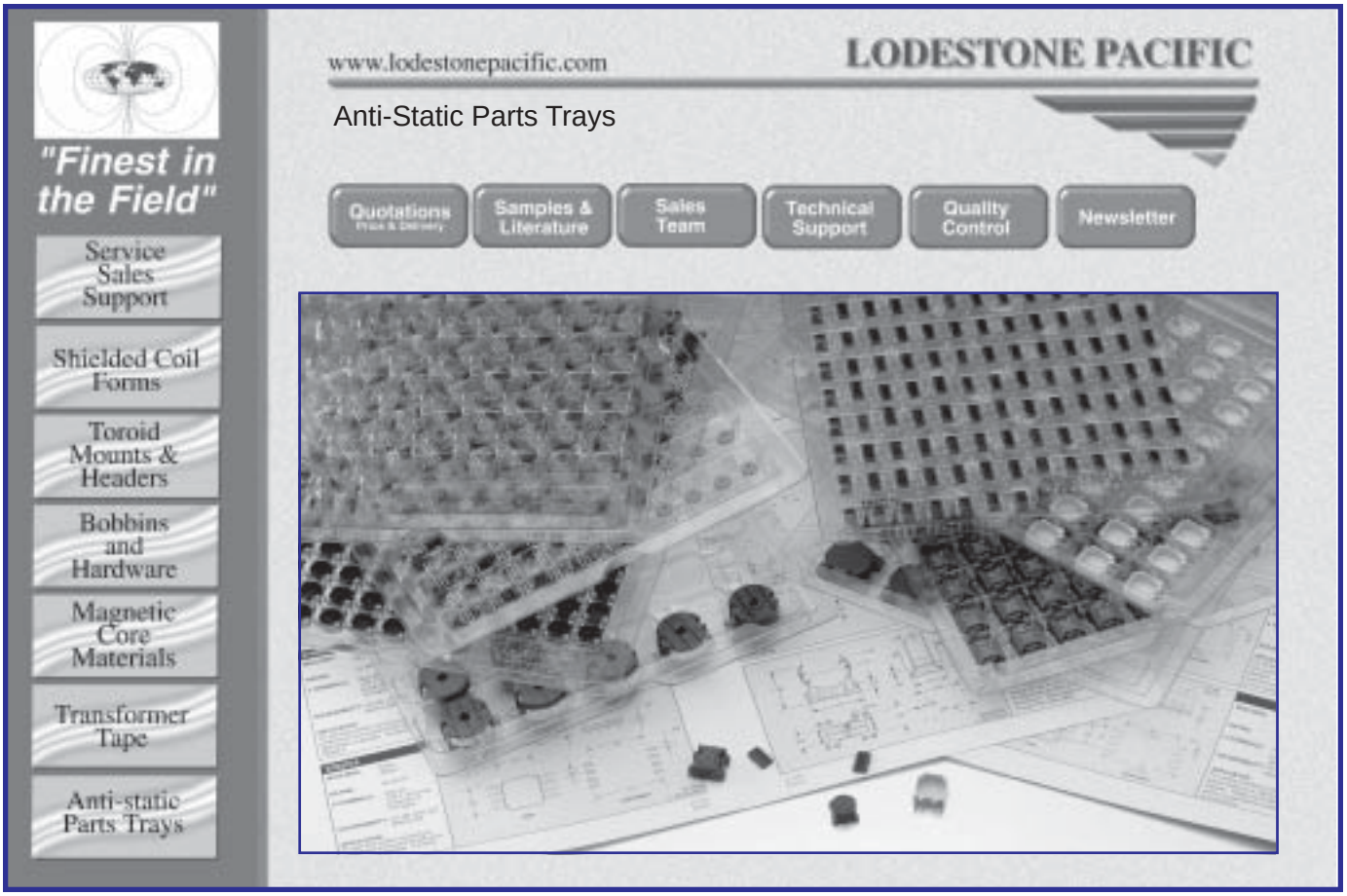
AVAILABILITY The standard trays are available from stock, subject to a $25 total order minimum, and a $15 per line minimum. There is no tooling charge for the standard tray. Sample trays for customer evaluation ship the next day.

PRICE: All standard trays are the same price regardless of the number of cavities. This means that the price per cavity of a 100 cavities is half that of a 50 cavity tray. Keep in mind that 1000 trays with 100 cavities is enough for 100,000 parts. In moderate quantities, trays with over 100 cavities will have a packaging cost of less than $.008 per cavity. Since larger magnetic components are generally more expensive than smaller ones, the percent of packaging cost per part will be similar, even though the number of cavities per tray is lower. Please contact Lodestone Pacific for current tray pricing.

MATERIAL: The trays are formed from clear PVC, and are anti-static to EIA-541. The material will tolerate up to 230°F. There is a higher temperature material available, but will require a quote based on the number of trays required. We can also form these trays in High Impact Styrene (HIPS).

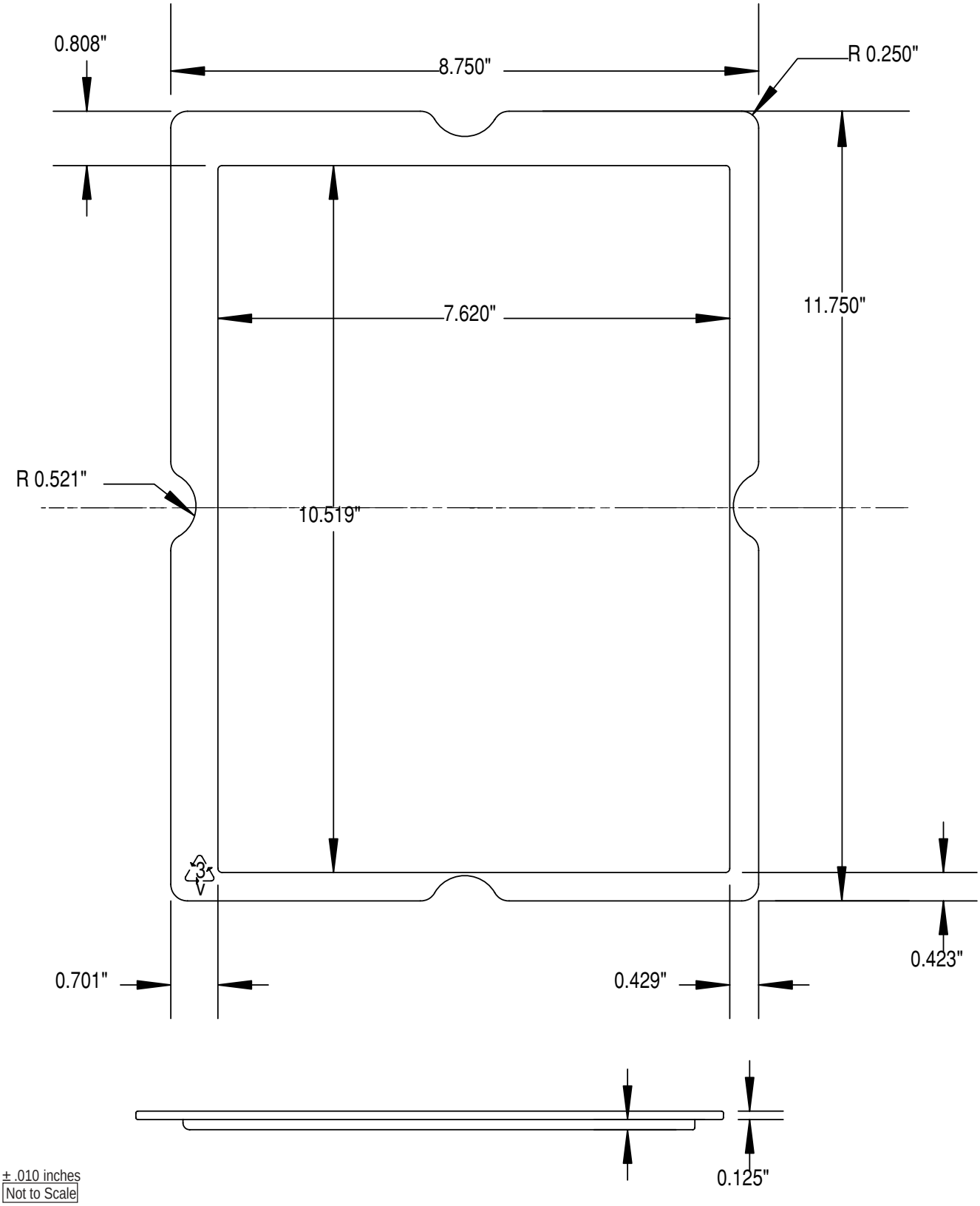
CUSTOM TRAYS: We can create a custom cavity size and array within our standard 8.75 by 11.75 inches tray, or to your specifications. The title block in each tray can be customized with a customer's name and/ or part number. Please contact Lodestone Pacific for a quote of your customer requirements.

Trays for EP, RM, ETD, ER, EFD, EPC, E & Pot cores are being developed.



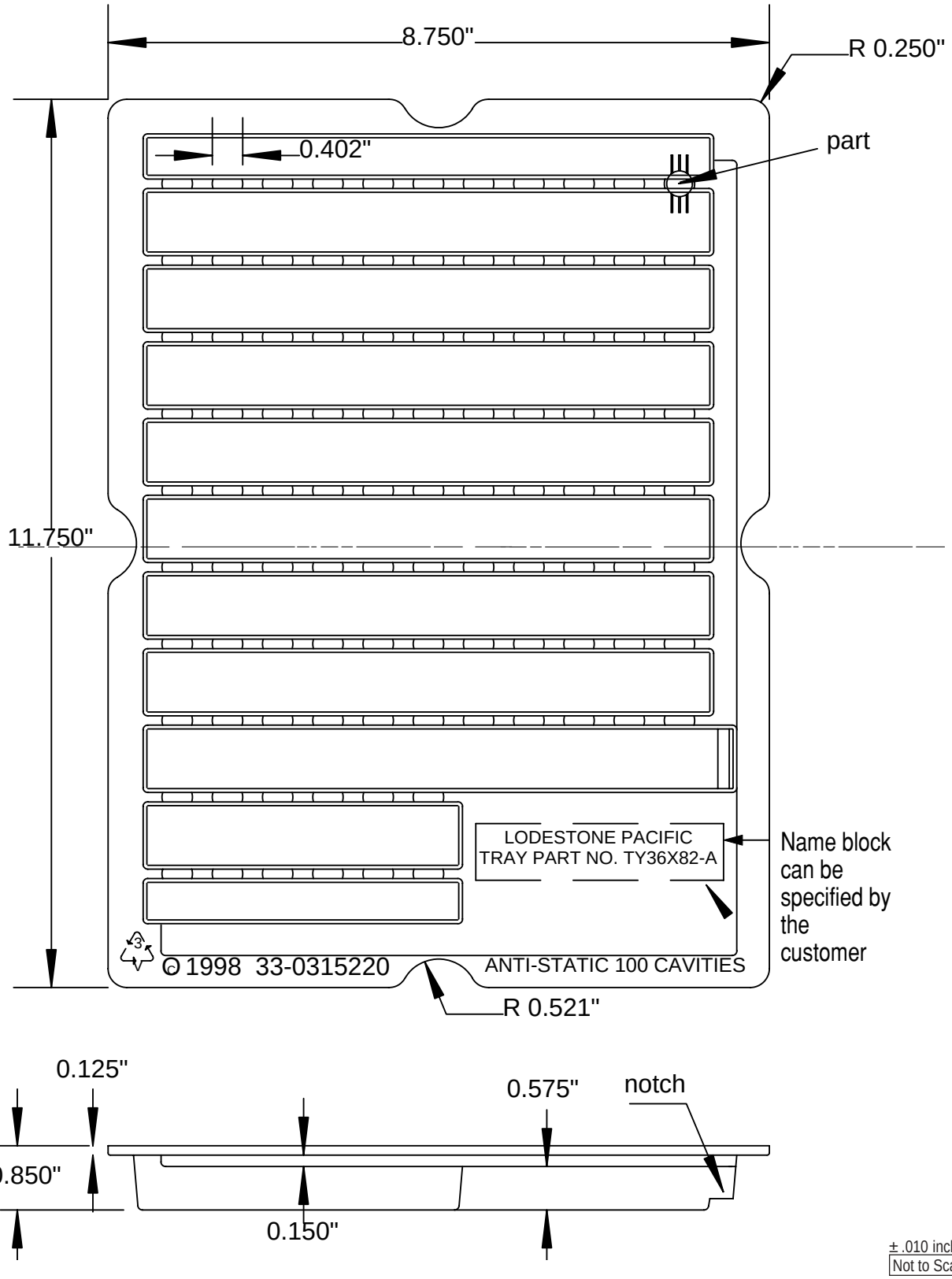
TY1000-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cover for all Trays in Series



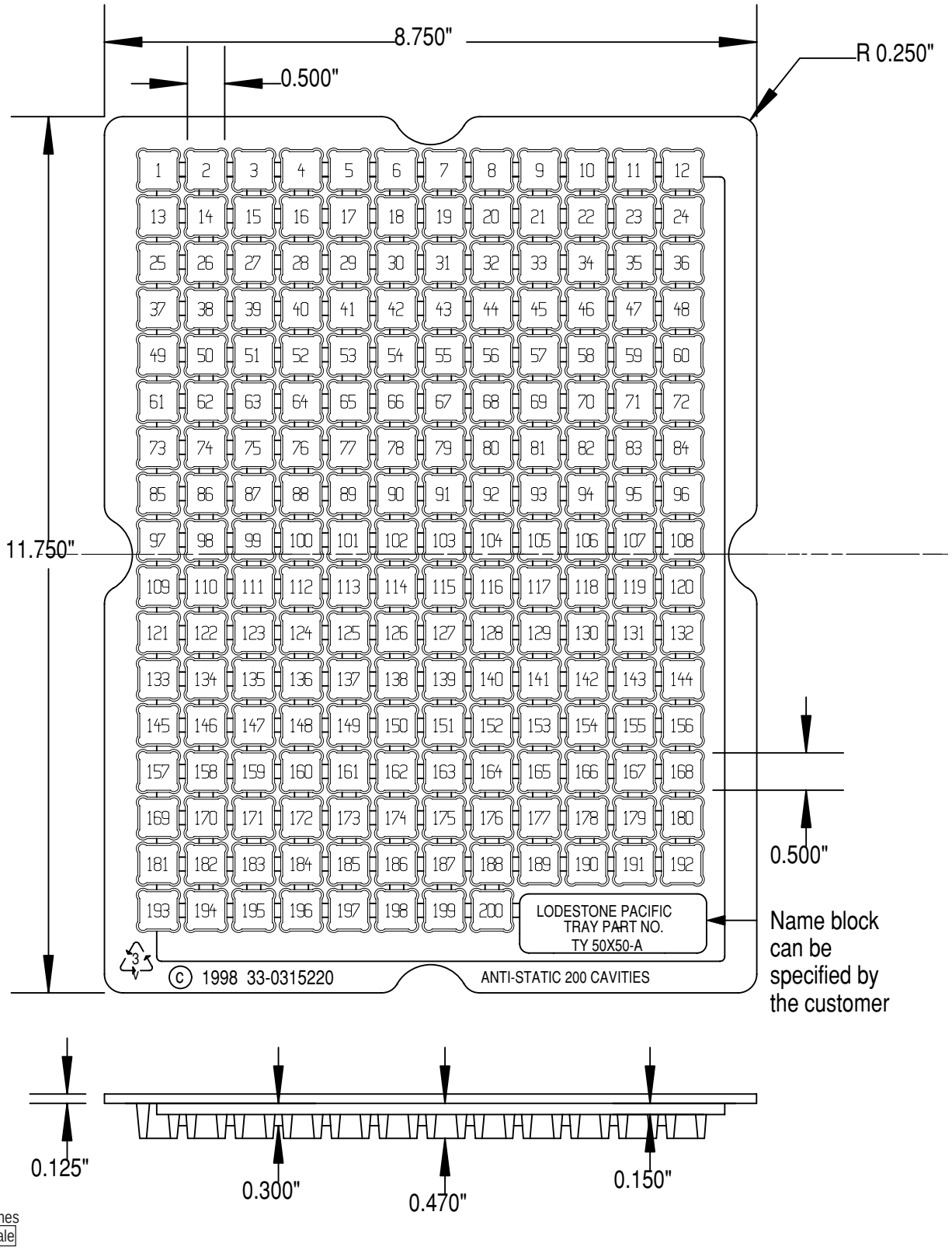
TY36X82-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 100



TY50X50-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 200

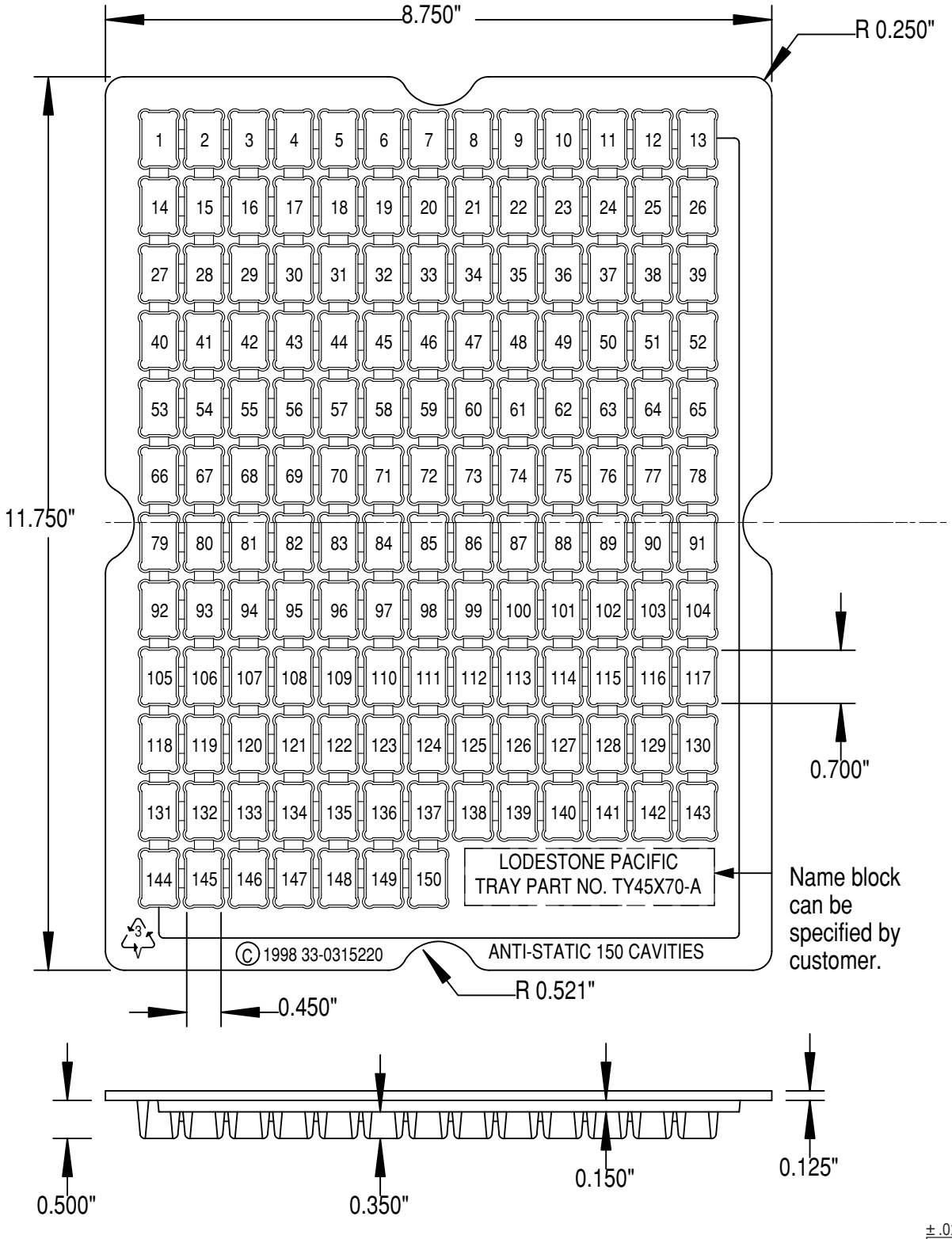


± .010 inches
Not to Scale

ANTISTATIC TRAYS

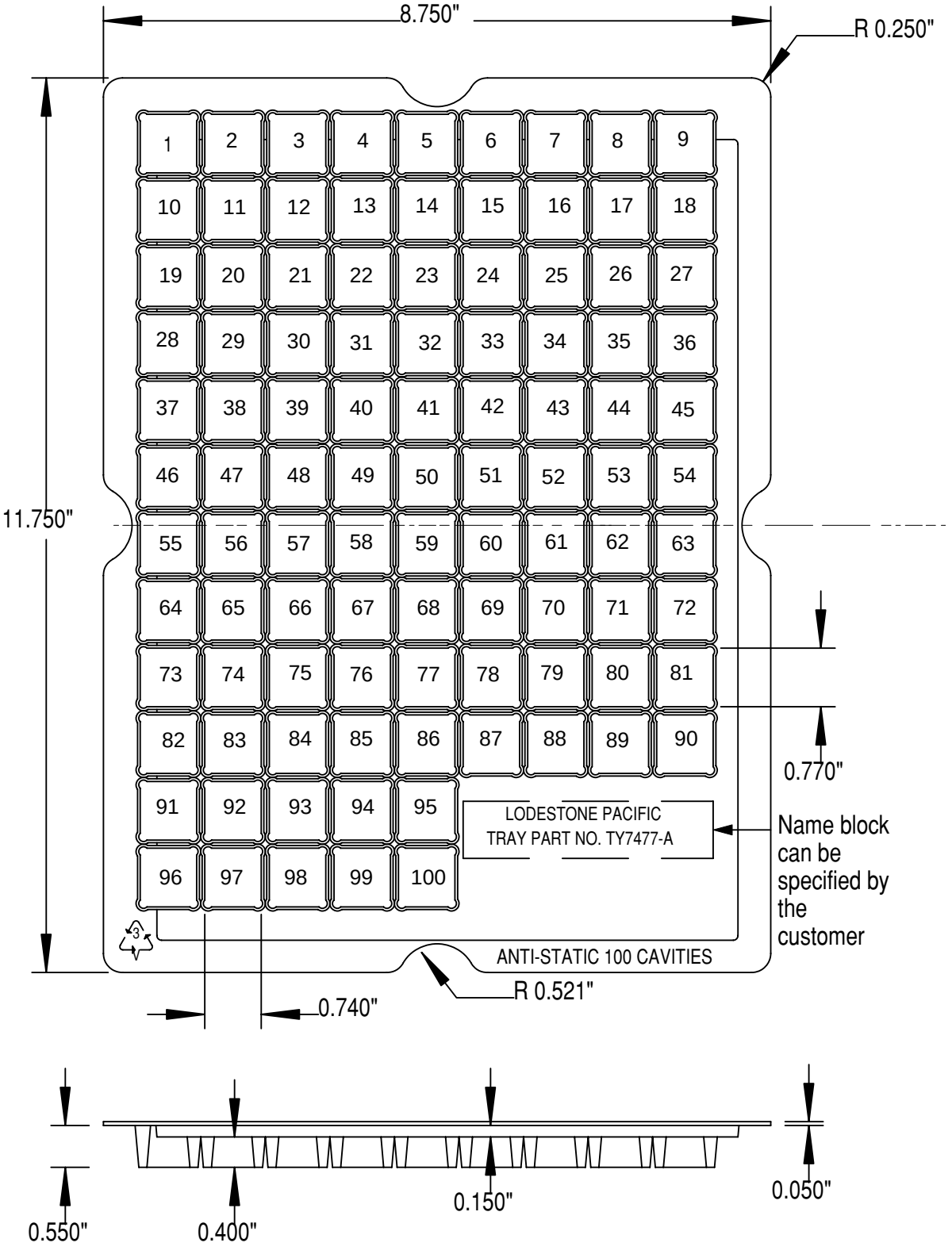
TY45X70-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 150



TY74X77-A

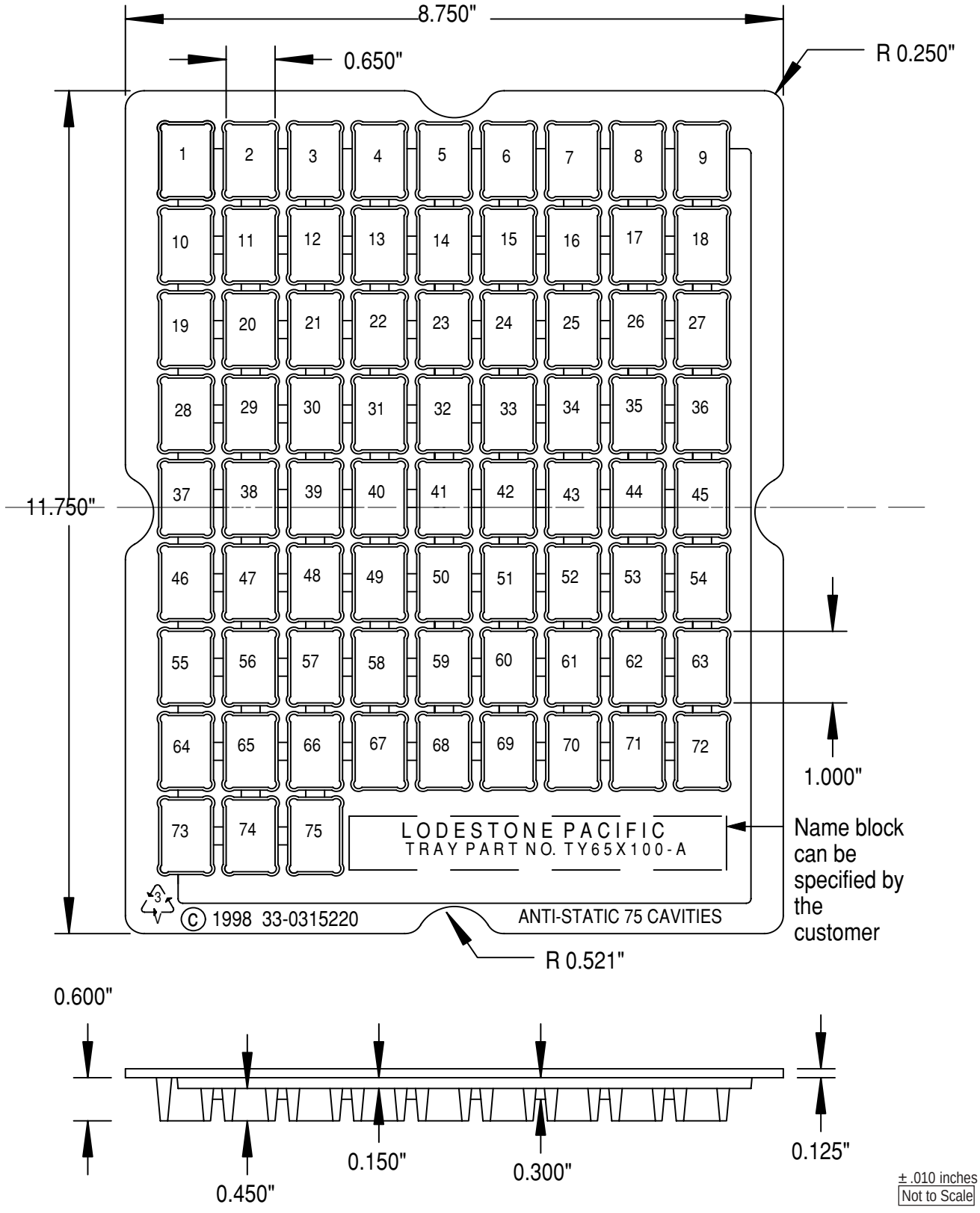
Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 100



± .010 inches
Not to Scale

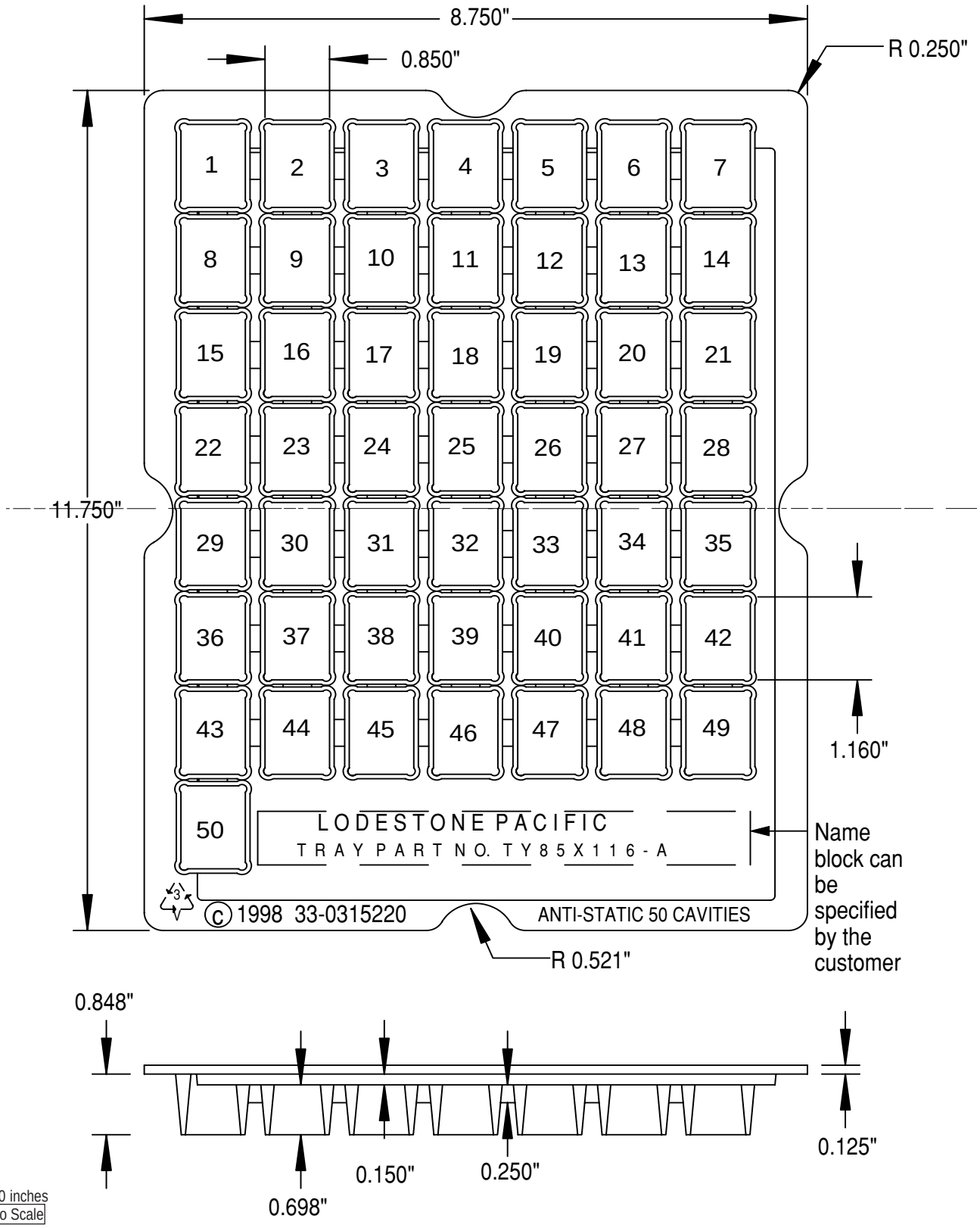
TY65X100-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 75



TY85X116-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 50



TY122X140-A

Material: PVC (.020 thick)
Rating: Anti-static to EIA-541
Cavities: 35