HEROS technology Ltd
general electronics

MW Broadcast Band Rejection Filter.
BCB filter.
200 Watts power rating.

User manual. Rev 02
(April 2017)

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MW Broadcast Band rejection filter

To be inserted between the antenna and the transceiver.
No by-passing switching system is needed during transmission. (No relays).

Attenuates out of band spurious signals from MW broadcast band, well know enemies of SW receivers, cause of de-sensing and IMD issues due overloading of the receiver front-end.

This filter allows to work all of 160 Meters, including the CW portion of the band without the interferences normally experienced by receivers due to overload from out of band strong commercial AM broadcast band signals

Very sharp slope occurring at 1.8MHz, keeps without attenuation all signals at 1.8MHz and above.

Low pass band insertion loss, less than 1 dB @ 1.8MHz typical and flat pass band response.

No relays are needed to by-pass the filter in transmission.

Suitable for inserting between transceiver and antenna.

Features:
Impedance: 50 Ohm.
Connected in-line with any 160m - 6 m (1.8 - 50 MHz) HF transceiver,
transmits right through it on any HF ham band above 1.8 MHz.
Compatible with any typical 200 Watt class HF transceiver.
Suitable for inserting between a HF transceiver and an amplifier or a tuner.
Attenuates signals in the AM broadcast band more than 80 dB.
Totally passive design, T/R (Transmit/Receive) operation.
No switcing relays, no moving parts. No relay time delays.
Does not require connection to a power supply.
Instantly switches from transmit to receive and back again.

General Filter Specifications:
Power rating: 200Watts
Pass band loss: < 0.85dB (1.8MHz)
Pass band Loss: >1dB (3-50MHz)
Max BB attenuation: > 85dB
Return loss: > 20dB (1.8 MHz through 50 MHz)
Size: 148mmx55mmx50mm(5.827x2.165x1.969in)

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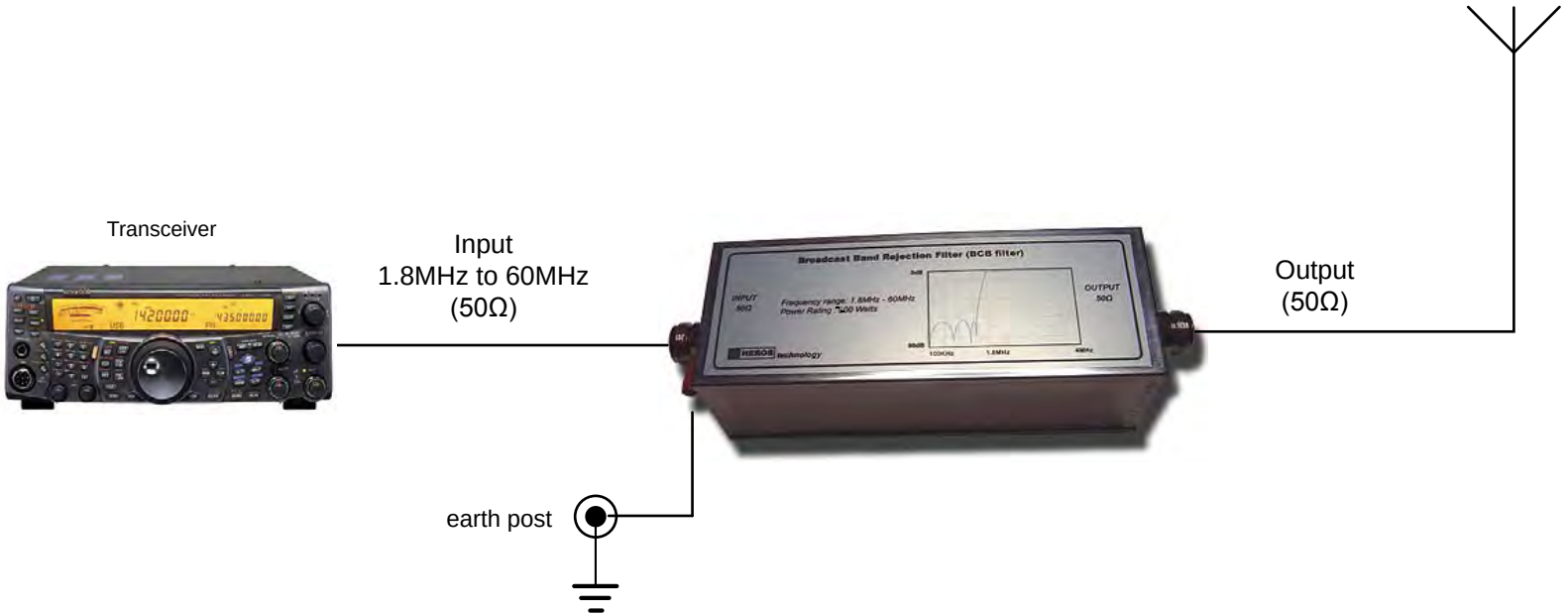
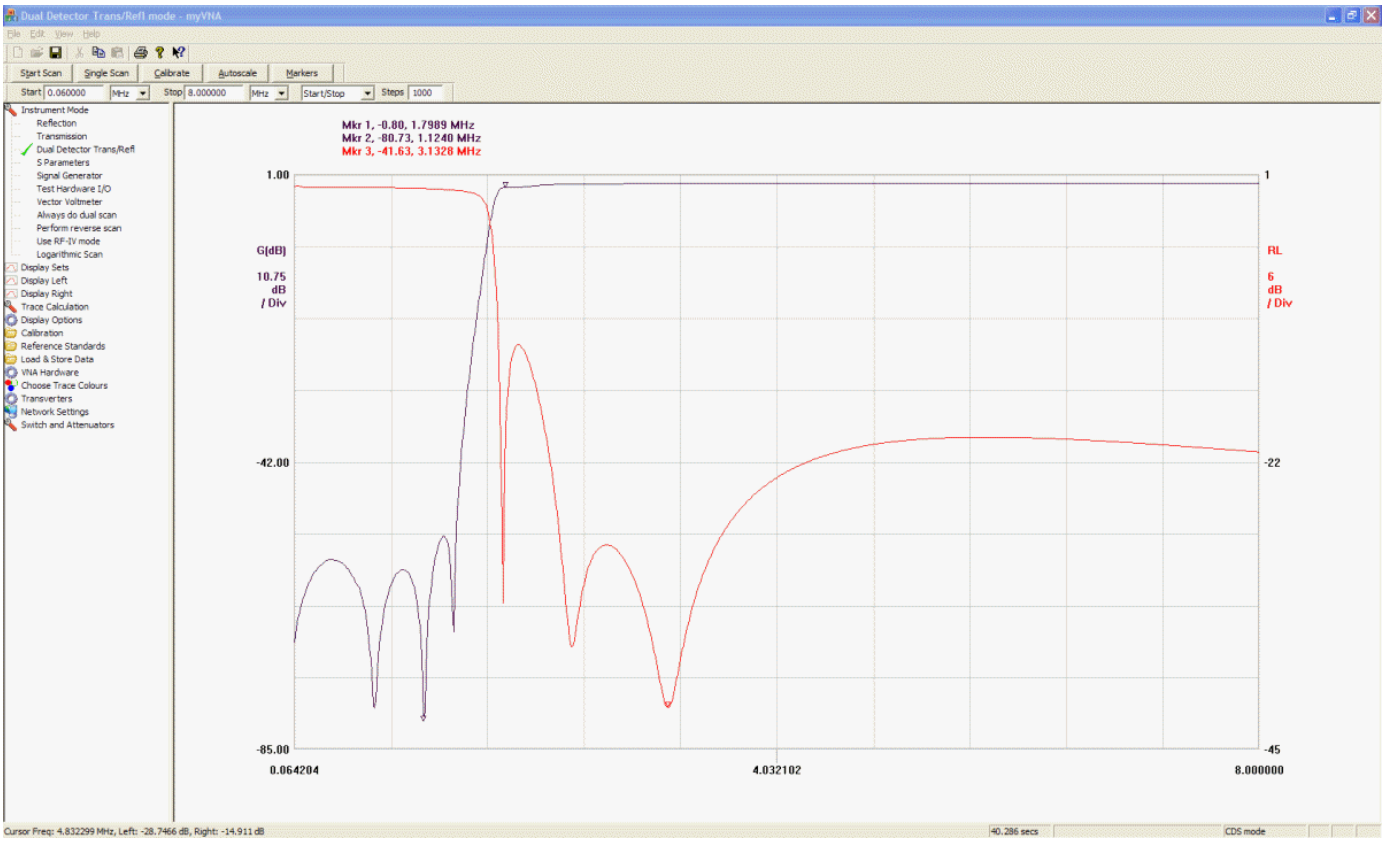
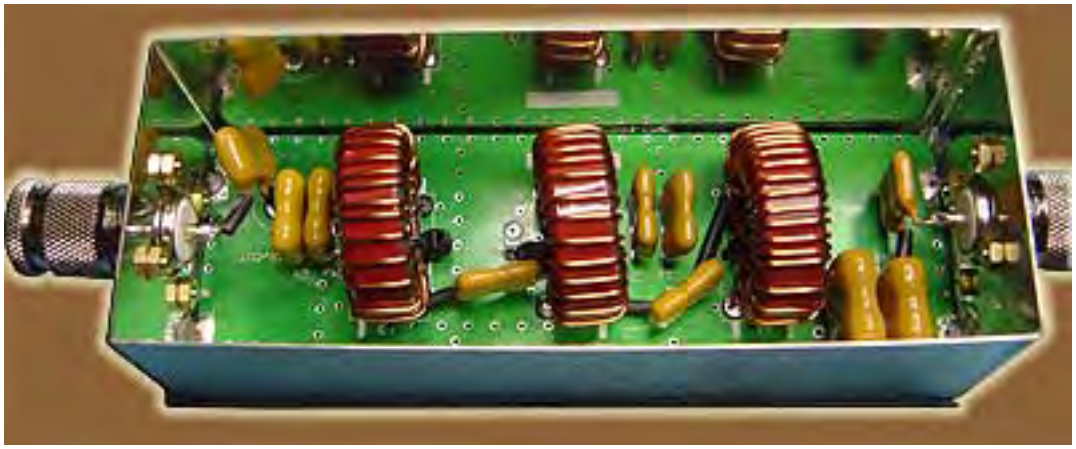


** Power rating 200Watts.*
** Do not apply power to the filter without appropiate 50Ω load.*
** Keep VSWR below 1.5.*
** High VSWR could damage the filter.*



Response plot



Inside view.
Large high current T-130 toroid cores are used to avoid be saturated.

NOTES: