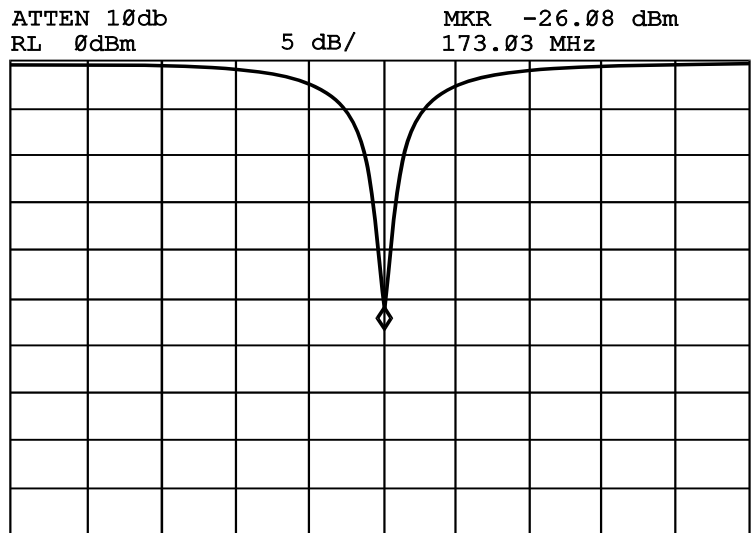


BRF-1601 Notch Filter Instruction Sheet

Introduction

The BRF-1601 is a single cavity, high-Q notch filter designed to reduce interference in the SVR-200VB or SVR-250VB vehicular repeater when used with a VHF mobile. The notch filter is tuned to the SVR frequency, but installed on the mobile transmitter coax to reduce phase noise produced by the mobile that falls on the SVR receive frequency. **The mobile must not be capable of transmitting on the SVR frequency or within 5 MHz of the SVR frequency or damage to the mobile transmitter or the BRF-1601 may result.**

The BRF-1601 provides up to 20db of attenuation with minimal insertion loss (<0.5db) at greater than 5 MHz spacing. **The frequency separation between the mobile transmitter and the SVR must be 5 MHz or greater.**



START 163.00 MHz STOP 183.00 MHz
RBW 100 kHz VBW 100 kHz SWP 50 ms

Specifications	
Frequency Range	150-175 MHz
Notch Depth	-20db typical
3db Bandwidth	3MHz
Insertion Loss	<0.5db @ 5 MHz or greater
Power Handling	120W Max

Installation

The BRF-1601 is supplied with a 12" length of RG-142 coax, a TNC "T" adapter and is factory tuned. The length of this coax is part of the tuning mechanism and any change in the length of this cable will *change the center frequency*. **Do not change the length of this coax or the TNC adapter.** The length of the coax connecting the mobile radio or the antenna is not critical and can be any length. Ideally, these coax cables should also be RG-142 or similar high quality double shielded cable.

Install the BRF-1601 between the mobile transmitter and the antenna as shown. The BRF should be as close to the mobile as possible.

