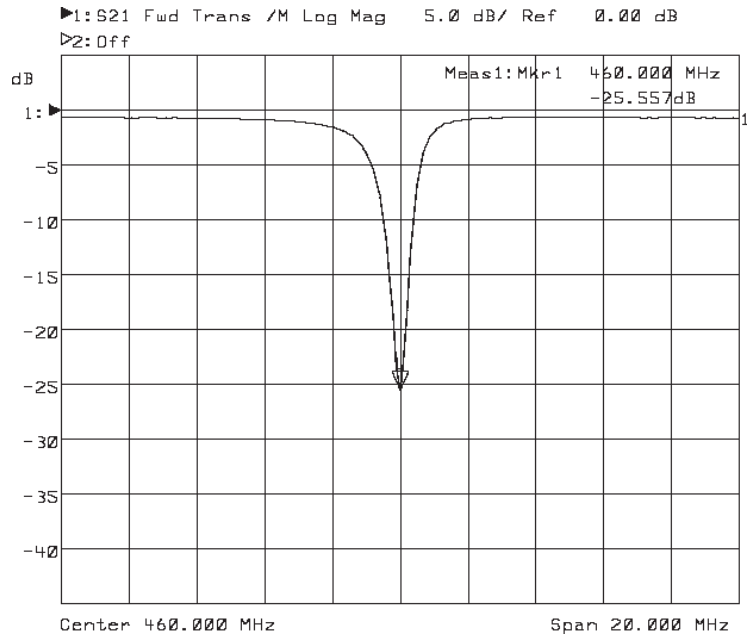


BRF-4602 Notch Filter Instruction Sheet

Introduction

The BRF-4602 is a dual cavity, high-Q notch filter designed to reduce interference in the SVR-200UD or SVR-250UD vehicular repeaters when used with a UHF 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 2 MHz of the SVR frequency or damage to the mobile transmitter or the BRF-4602 may result.**

The BRF-4602 provides up to 25dB of attenuation with minimal insertion loss (<0.5dB) at greater than 2 MHz spacing. **The frequency separation between the mobile transmitter and the SVR must be 2 MHz or greater. Antenna placement is also critical.**



Specifications	
Frequency Range	440-480 MHz
Notch Depth	-25dB typical
3db Bandwidth	1.75 MHz
Insertion Loss	<0.5dB @ 2 MHz or greater
Power Handling	120W Max

Installation

The BRF-4602 is supplied with two TNC "T" adapters, a phasing harness and is factory tuned. **Do not change the length of any 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-4602 between the mobile transmitter and the antenna as shown. The BRF should be as close to the mobile as possible.

