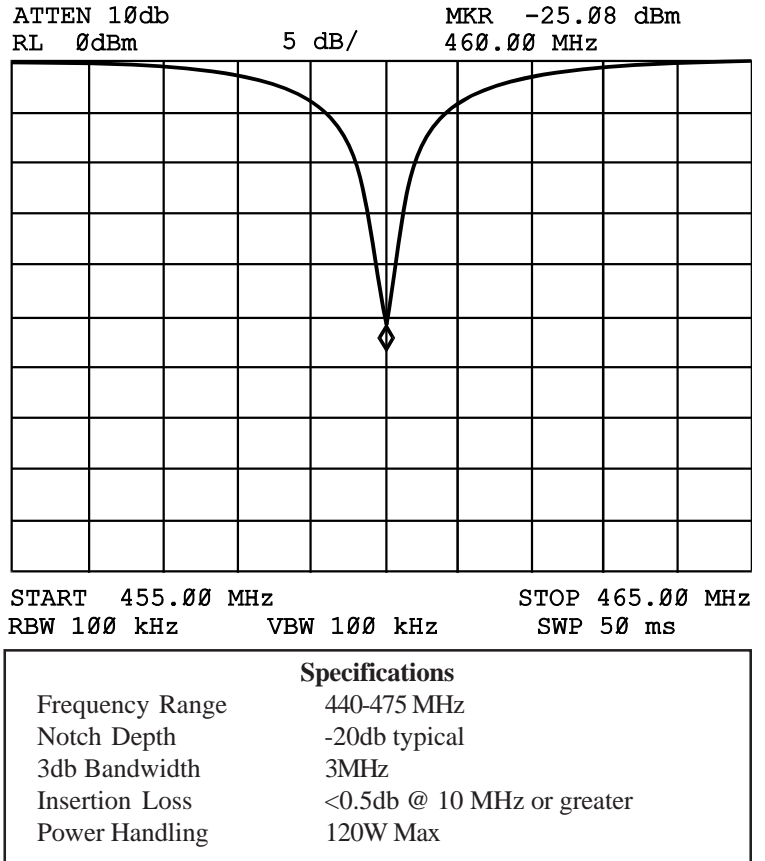


BRF-4601 Notch Filter Instruction Sheet

Introduction

The BRF-4601 is a single 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 10 MHz of the SVR frequency or damage to the mobile transmitter or the BRF-4601 may result.**

The BRF-4601 provides up to 20db of attenuation with minimal insertion loss (<0.5db) at greater than 10 MHz spacing. **The frequency separation between the mobile transmitter and the SVR must be 10 MHz or greater.**



Installation

The BRF-4601 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-4601 between the mobile transmitter and the antenna as shown. The filter should be as close to the mobile as possible.

