

TMND-4416	440-450 MHz
TMND-4516	450-460 MHz
TMND-4616	460-470 MHz

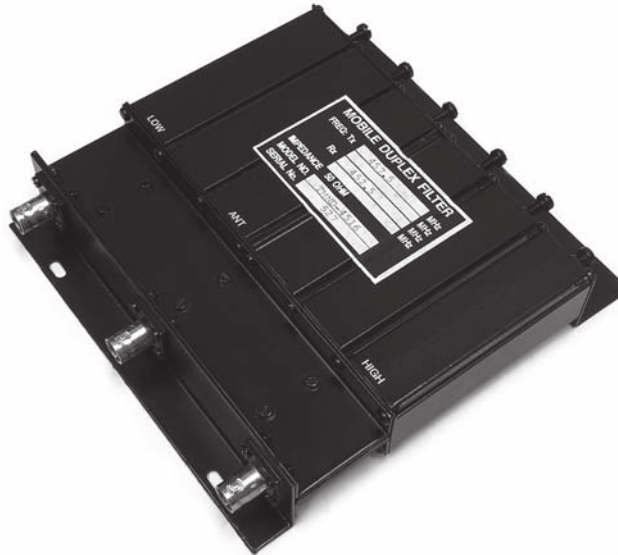
## TMND-4416, 4516, 4616 UHF COMPACT DUPLEXERS

Telewave TMND-44/45/4616 Mobile Duplexers provide high performance in a compact design. These rugged duplexers are designed for use in base or mobile installations, with minimum space requirements.

Each duplexer consists of six High "Q" helical resonators in a band-reject configuration. This compact design has no exposed interconnect cables. Field tuning can be performed with easily accessible tuning elements on the rear of the unit.

The TMND-44/45/4616 operate with at least 5 MHz TX to RX separation. This configuration provides 75 dB of isolation, and low insertion loss permits power handling up to 50 watts.

All duplexers are tuned and tested with customer-specified frequencies prior to shipping. When ordering, specify exact frequencies and connector type required (N or BNC).

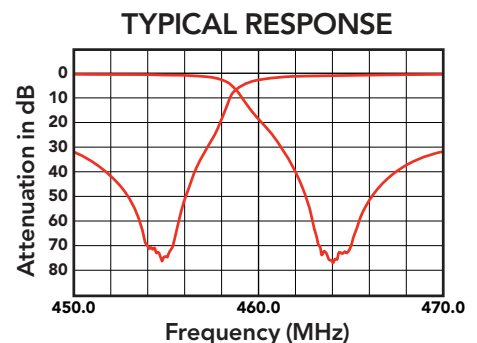


### ELECTRICAL SPECIFICATIONS

Frequency range (MHz)	4416: 440-450 4616: 460-470 4516: 450-460
Frequency separation (min)	5 MHz
Maximum input power	50 watts
Impedance / VSWR (max)	50 ohms / 1.5:1
Insertion loss (TX/RX to antenna)	1.2 dB
TX noise at RX (min)	75 dB
RX attenuation at TX (min)	75 dB
TX-RX Iso. at 5 MHz sep. (min)	75 dB
Temperature range	-20°C to +60°C
Resonators	(6) - 1"

### MECHANICAL SPECIFICATIONS

Dimensions (HWD) in. (cm)	1.3 x 6.1 x 6.9 (3.3 x 15.5 x 17.5)
Footprint (mounting plate) in. (cm)	6.1 x 8.5 (16 x 22)
Connectors	BNC Female or N Female
Finish	Black acrylic enamel
Net weight lb. (kg)	2.2 (1)
Shipping weight lb. (kg)	3.0 (1.4)



Appearance of current production models may vary from picture.