

TMND-4716	470-480 MHz
TMND-4816	480-490 MHz
TMND-4916	490-500 MHz
TMND-5016	500-512 MHz

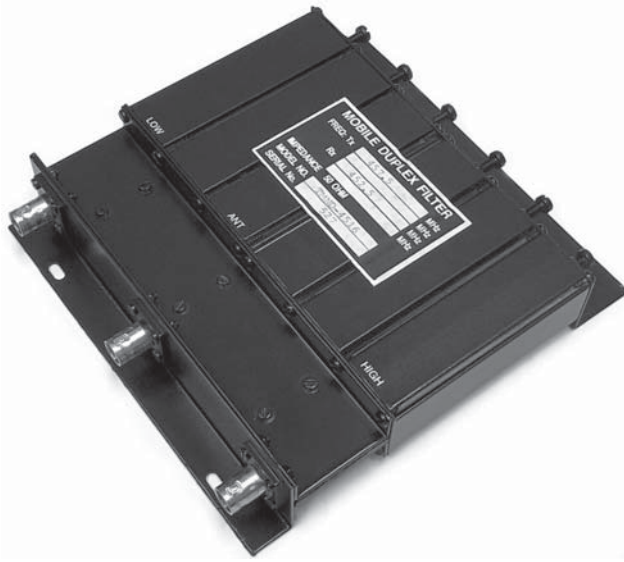
# TMND-4716, 4816, 4916, 5016

## UHF COMPACT DUPLEXERS

Telewave 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.

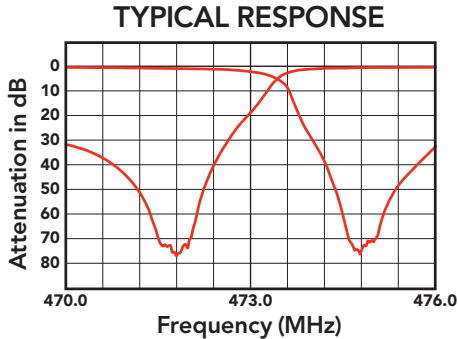
Each duplexer consists of six High "Q" helical resonators in a band-reject configuration. This compact design has no exposed interconnect cables. Field tuning can be performed if needed with easily accessible tuning elements on the rear of the unit.

Each duplexer covers a 10 MHz segment between 470-512 MHz, with typical 5 MHz TX to RX separation. This configuration provides 70 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)	470-512 MHz (10 MHz segment)
Frequency separation (typ)	5 MHz (3 MHz - Contact Telewave)
Maximum input power	50 watts
Impedance / VSWR (max)	50 ohms / 1.5:1
Insertion loss (TX/RX to antenna)	1.25 dB
TX noise at RX (min)	70 dB
RX attenuation at TX (min)	70 dB
TX-RX Iso. at 5 MHz sep. (min)	70 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.