

TMND-4416, 4516, 4616 UHF COMPACT DUPLEXERS

Telewave.io TMND-4416/4516/4616 Compact Duplexers provide high performance while using minimal space. These rugged duplexers excel in portable, mobile, or base applications.

The duplexers can be mounted inside of any repeater chassis with a space that is at least 6.4" wide x 9.0" deep x 3.0" tall. Best to have connectors pointed toward the back of the chassis.

Each duplexer consists of six High "Q" reject helical resonators (3 per side). Field tuning can be performed with easily accessible tuning elements on the opposite side of the connectors. These duplexers are not recommended for fixed sites with other VHF radios that have antennas or frequencies near those associated with this duplexer.

For better performance, we recommend when ordering, specify exact high side and low side frequencies. The duplexers are tuned and tested at the factory using the customer-specified frequencies.



ELECTRICAL SPECIFICATIONS	
Frequency range (MHz)	4416: 440-450 MHz 4516: 450-460 MHz 4616: 460-470 MHz
Frequency separation (min)	5 MHz
Frequency separation (max)	10 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)

