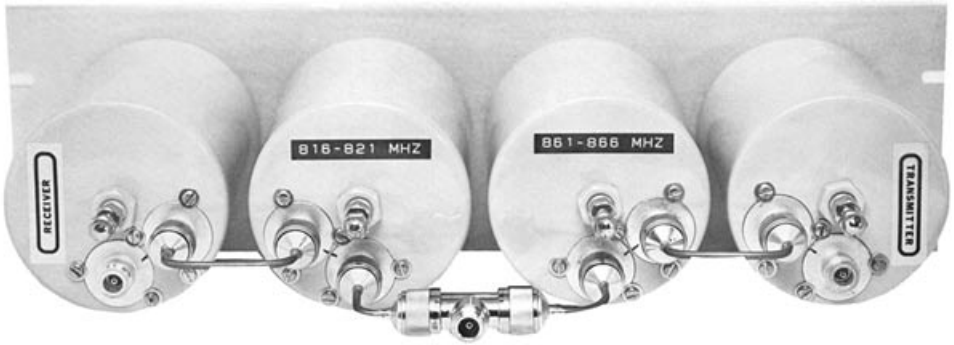
TELEWAVE, INC.®

806 - 960 MHz

TTPD-8644

BANDPASS DUPLEXER



The TELEWAVE TTPD-8644 Base Station duplexer for the 800 MHz trunked frequency bands achieve an all-time standard for the industry. The 4 band-pass-bandreject cavities utilize an exclusive Telewave coupling technique to provide a true band-pass response while rejecting a specified frequency band. Maximum transmitter-to-receiver protection is achieved across the full 5 MHz transmitter and receiver bands.

Telewave design advantages:

- Minimum insertion loss across the bands.
- Maximum isolation across the bands.
- True bandpass response for maximum spurious noise suppression.
- Adjustable coupling and tuning.
- All cavity inputs heavily grounded for greatest static and lightning protection.
- Use of solid copper semi-rigid cable and non-ferro-magnetic materials virtually eliminate internal intermod generation.

The TTPD-8644 is a compact, 19” x 5.25”, panel mounted duplexer with power rating of 650 watts. The heavy duty materials with 1/4” top and 1/4” bottom plates add to the rugged design of this duplexer. All connectors and tuners are silver-plated, and the Berylium copper finger stock contactors assure long life, High-Q performance, and mechanical stability. The threaded Invar tuning rod and temperature compensator provide frequency stability across the full -30 C to +70 C temperature range.

All duplexers are pre-tuned from the factory. Special tuning outside of the trunked bands is provided when frequencies are specified. No further adjustments should be required. The positive locking mechanism makes field-tuning easy if frequency changes are necessary.

TELEWAVE, INC. 660 Giguere Court San Jose, CA 95133
Toll Free: **1-800-331-3396** Direct: 408-929-4400 Fax: 408-929-4080
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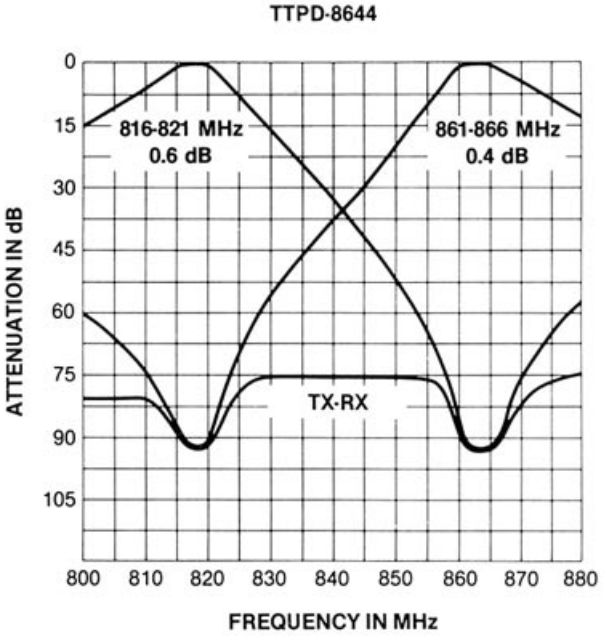
TTPD-8644

TYPICAL DUPLEXER RESPONSE CURVE



ELECTRICAL DATA	TTPD-8644
Frequency Range	806-890 MHz
Frequency Separation (min)	45 MHz
Power Input (max)	650 Watts
TX or RX Pass Bandwidth	5 MHz
Insertion Loss at Pass Bandwidth:	
TX (high frequency)	0.5 dB max / 0.35 dB typ.
RX (low frequency)	0.7 dB max / 0.5 dB typ.
TX Attenuation at RX Band (min)	85 dB
RX Attenuation at TX Band (min)	85 dB
TX-to-RX Attenuation (min)	75 dB
VSWR, ref to 50-Ohms (max)	1.5:1
Temperature Range	-30 C to +70 C
Number of Cavities	4
Cable Type	0.141” copper semi-rigid

MECHANICAL DATA	
Dimensions in (cm) (HWD)	5.25 x 19 x 8.5 (13 x 48 x 22)
Mounting	19” Panel
Connectors	Type N female
Finish	Acrylic Enamel
Net Weight lb (kg)	8.25 (3.7)
Shipping Weight lb (kg)	13 (5.9)

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