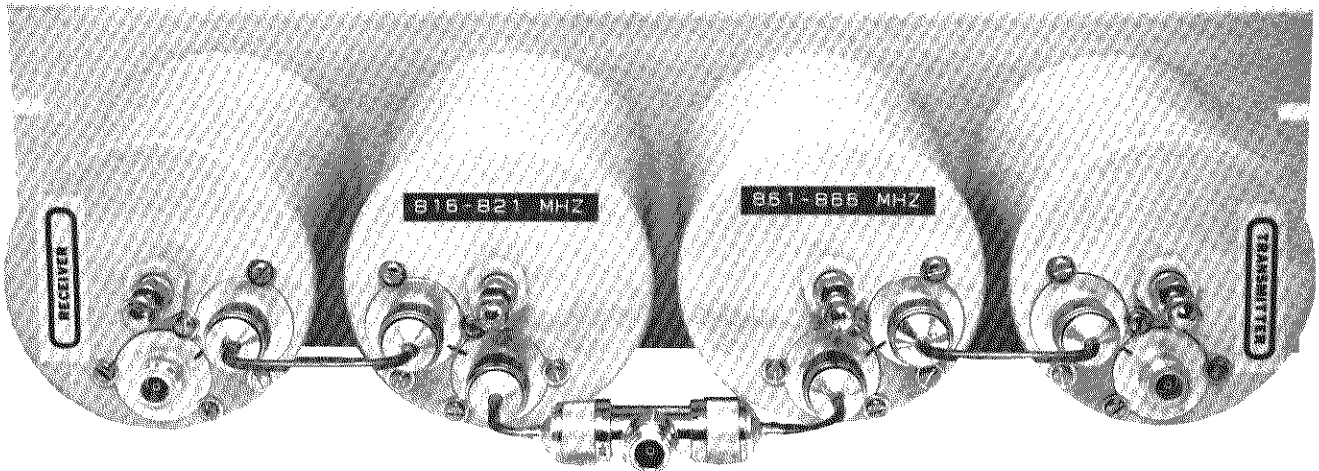


806 - 960 MHz

Trunked Duplexer

PATENT PENDING



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

Advantages of this design are:

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

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 Beryllium 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.

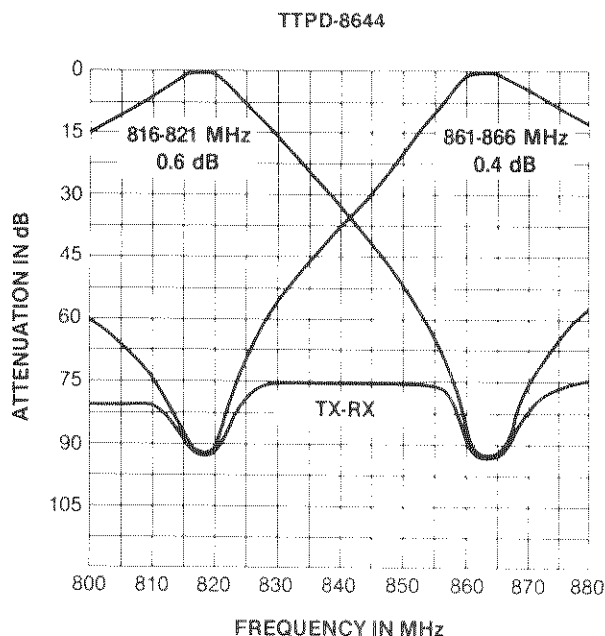
All duplexers are pre-tuned from the factory. Special tunign outside of the trunked bands is provided when frequencies are specified. No further adjustments should be required. The positive-locking mechanism makes field-tuning easy if frequency changes are necessary.

The TTPD-8644 is a compact, 19" x 5 1/4", panel-mounted duplexer with a power rating of 650 Watts.

Telewave, Inc.

1155 Terra Bella Avenue / Mountain View / CA 94043 / Tel. (415) 968-4400 / FAX: (415) 968-1741
Email: sales@telewaveinc.com / <http://www.telewaveinc.com> / ORDER TOLL FREE — (800) 331-3396

TYPICAL DUPLEXER RESPONSE CURVE



ELECTRICAL SPECIFICATIONS

	TTPD-8644
Frequency Range	806-890 MHz
Frequency Separation (min)	45 MHz
Input Power (max)	650 Watts
TX or RX Pass Bandwidth	5 MHz
Insertion Loss at Pass Bandwidth:	
TX (high frequency)	.5 dB max/.35 dB typ
RX (low frequency)	.7 dB max/.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	.141" copper semi-rigid

MECHANICAL SPECIFICATIONS

Dimensions (H x W x D):	
cm	13 x 48 x 22
in	5.25 x 19 x 8.5
Mounting	19" Panel
Connector Termination	Type N female
Finish	Acrylic Enamel
Net Weight	
Kgs	3.7
lbs	8.25
Shipping Weight	
Kgs	5.9
lbs	13

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All specifications are subject to change without notice.