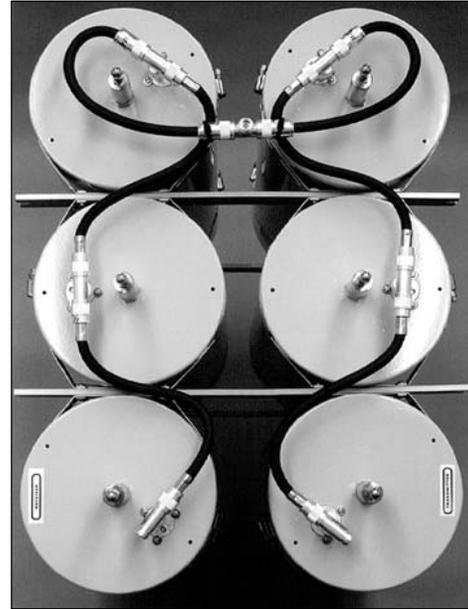


**TPRD-1586****BASE STATION DUPLEXER  
BANDPASS / BAND-REJECT**

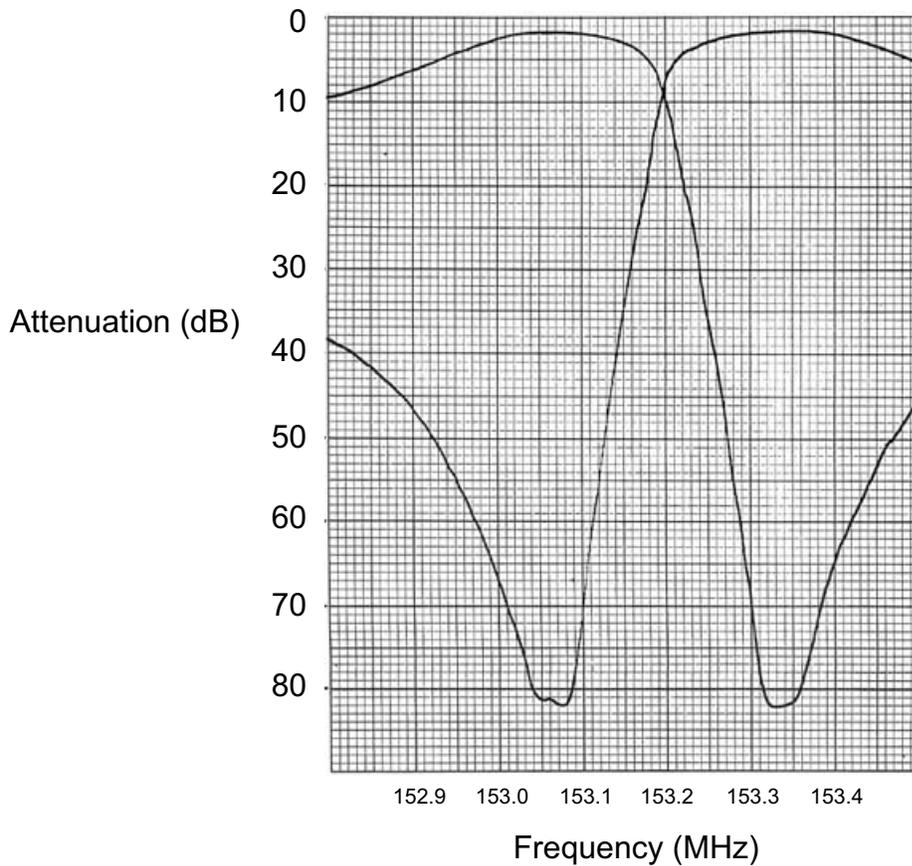
The Telewave TPRD-1586 Duplexer allows simultaneous operation of a transmitter and receiver into a common antenna. This Pass-Reject duplexer is an ideal choice for frequency-congested sites, where protection is needed from nearby transmitters, and where maximum transmitter sideband filtering is necessary. These duplexers are designed for use in systems requiring maximum isolation, with close frequency spacing down to 300 KHz.

The TPRD-1586 has three Pass-Reject cavities each in the transmitter and receiver sections. Selectivity and insertion loss may be adjusted by rotating the calibrated connector loops. (See reverse side for typical response curves).

Telewave duplexers have 0.25" aluminum top plates which are fully welded to the aluminum outer conductor. As a result of their superior construction, Telewave 8" cavity duplexers achieve greater rejection of transmitter spurious and noise radiation, providing better receiver protection. Silver-plated tuners, beryllium copper finger stock contactors, and threaded In-var rods assure maximum temperature stability, higher "Q", and many years of trouble-free operation.

**TELEWAVE, INC.** 660 Giguere Court San Jose, CA 95133Toll Free: **1-800-331-3396** Direct: 408-929-4400 Fax: 408-929-4080**<http://www.telewave.com>****Email: [sales@telewave.com](mailto:sales@telewave.com)**

# TPRD-1586



## ELECTRICAL SPECIFICATIONS

Model	<b>TPRD-1586</b>
Tuning Range	148-174 MHz
Frequency Separation (min)	300 KHz
Max Input Power	300 Watts
Insertion Loss:	
TX to Ant	2.2 dB
RX to Ant	2.2 dB
TX Noise suppression at RX (min)	100 dB@ 400 KHz
RX Isolation at TX(min)	100 dB@ 400 KHz
VSWR ref. to 50Ω (max)	1.5:1
Temperature Range	-30°C to +70°C
Number of cavities	6 - 8" dia.

## MECHANICAL SPECIFICATIONS

Mounting	19" Rack Mount
Dimensions (HxWxD)	23.5" x 19" x 25"
With tuning rods fully extended	28" x 19" x 25"
Connectors	N or UHF Female
Finish	Gray Acrylic Enamel
Net Weight	46.5 lb

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