

TPRD-1566

BANDPASS - BANDREJECT DUAL NOTCH DUPLEXER



The Telewave TPRD-1566 allows simultaneous operation of a transmitter and receiver into a common antenna. This pass/reject duplexer has low insertion loss, and is ideal for systems with close frequency separation.

The TPRD-1566 has three pass/reject cavities in both the transmitter and receiver sections. This duplexer is designed for transmitters and receivers with frequency spacing of 300 KHz or more. Selectivity and insertion loss may be adjusted by rotating the calibrated connector loops. (See next page for typical response curves.)

Because of their superior construction, these Telewave 6" cavity duplexers achieve greater

rejection of transmitter noise and spurious radiation, providing excellent receiver protection.

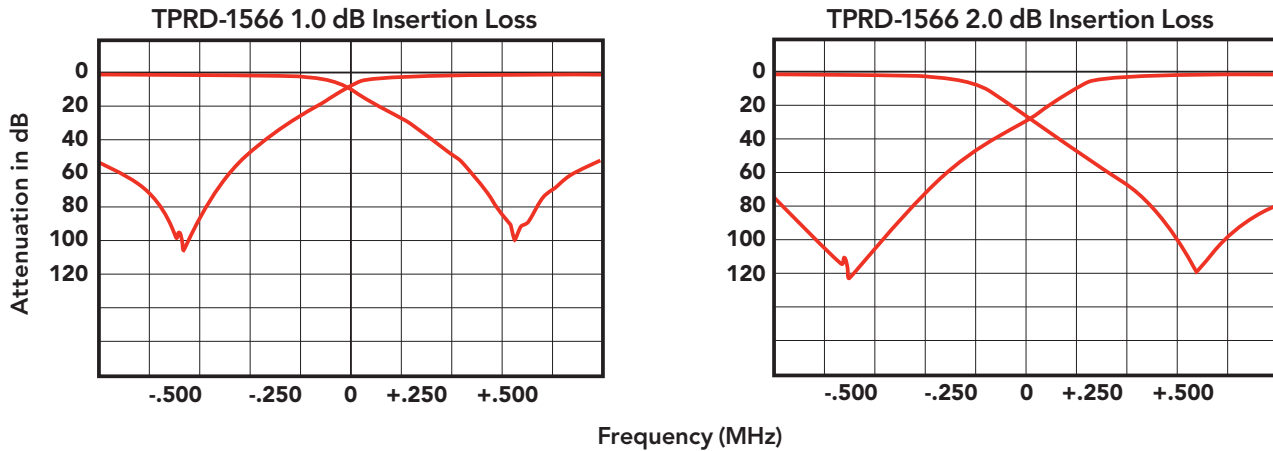
Telewave duplexers have 1/4" aluminum top plates which are fully welded to the aluminum outer conductor. Silver-plated tuners, beryllium copper finger stock contactors and threaded Invar rods assure maximum temperature stability, higher "Q", and many years of trouble free operation.

All duplexers are tuned and tested with customer-specified frequencies prior to shipping. If frequency changes are required, the positive locking mechanism allows for easy field tuning by rotating the threaded Invar rod.

The optional TBC-40 indoor cabinet completely encloses the duplexer, and protects it from dust, dirt and tampering. All connections are accessible from the top of the cabinet.

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TYPICAL DUPLEX RESPONSE



ELECTRICAL SPECIFICATIONS	
Tuning range	148-174 MHz
Number of cavities	(6) - 6"
Frequency separation (min)	300 KHz
Maximum input power	350 watts
VSWR (max)	1.5:1
RX isolation at TX frequency	100 dB at 500 KHz Insertion loss - 1.0 dB
TX noise suppression at RX	100 dB at 500 KHz Insertion loss - 1.0 dB
RX isolation at TX frequency	115 dB at 500 KHz Insertion loss - 2.0 dB
TX noise suppression at RX	115 dB at 500 KHz Insertion loss - 2.0 dB
Temperature range	-30°C to +70°C
MECHANICAL SPECIFICATIONS	
Dimensions (HWD) in. (cm)	23 x 19 x 14 (58.4 x 48.3 x 35.6)
Tuners fully extended in. (cm)	28 x 19 x 14 (71 x 48.3 x 35.6)
Connectors	N or UHF Female (opt.)
Finish	Gray acrylic enamel
Net weight lb. (kg)	55 (25)

NOTES: Specify model number and exact transmitter and receiver frequencies when ordering.
All models are built on 19" rails for rack or wall mounting.