

TPRD-2254

BANDPASS / REJECT DUPLEXER

The Telewave.io TPRD-2254 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-2254 has two pass-reject cavities in the transmitter and receiver sections. This duplexer is designed for transmitters and receivers with frequency spacing of 1 MHz or more. Selectivity and insertion loss may be adjusted by rotating the calibrated connector loops.

Telewave.io duplexers have ¼" 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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ELECTRICAL SPECIFICATIONS	
Tuning range	200-300 MHz
Frequency separation (min)	1 MHz
Maximum input power	350 watts
Insertion loss TX / RX to ant.	1.0 dB
TX noise suppression at RX (min)	84 dB at 1.5 MHz
RX isolation at TX (min)	85 dB at 1.5 MHz
VSWR (max)	1.5:1
Temperature range	-30°C to +70°C
Number of cavities	(4) - 5"
MECHANICAL SPECIFICATIONS	
Mounting	19" Rack mount
Dimensions (HWD) in. (cm)	23 x 19 x 11 (58 x 48 x 28) (Tuners fully extended)
Cavity dimensions	5" dia x 18" L
Connectors	N or UHF Female
Finish	Gray acrylic enamel
Net weight lb. (kg)	17 (7.7)

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

