

TPRD-1584, 1586 PASS-REJECT BASE STATION DUPLEXER

The Telewave TPRD-1584 and TPRD-1586 Duplexers allow simultaneous operation of a transmitter and receiver into a common antenna. These Pass-Reject duplexers are an ideal choice for systems requiring maximum isolation, with close frequency spacing down to 300 KHz.

The TPRD-1584 has two, and 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 graph for typical response curves.)

Telewave duplexers have 1/4-inch 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 Invar rods assure maximum temperature stability, higher "Q", and many years of trouble-free operation.



ELECTRICAL SPECIFICATIONS		TPRD-1584	TPRD-1586
Tuning range		148-174 MHz	
Frequency separation (min)		500 KHz	300 KHz
Maximum input power		350 watts	
Insertion loss TX / RX to ant.		1.5 dB	2.2 dB
VSWR (max)		1.5:1	
Temperature range		-30°C to +70°C	
RX isolation		80 dB at ±500 KHz	100 dB at ±400 KHz
TX noise suppression		80 dB at ±500 KHz	100 dB at ±400 KHz
MECHANICAL SPECIFICATIONS			
Cavities		(4) - 8"	(6) - 8"
Mounting		19" Rack mount	
Connectors		N or UHF female (opt.)	
Finish		Gray acrylic enamel	
Net weight lb. (kg)		33 (15)	46.5 (21)
Dimensions (HWD)		in. 23.5 x 19 x 17 cm (60 x 48 x 43)	in. 23.5 x 19 x 25 cm (60 x 48 x 63.5)
Tuners fully extended		in. 28 x 19 x 17 cm (71 x 48 x 43)	in. 28 x 19 x 25 cm (71 x 48 x 63.5)

TYPICAL RESPONSE (TPRD-1584)

