

TPRD-1484, 1486

PASS-REJECT BASE STATION DUPLEXERS

The Telewave TPRD-1484 and TPRD-1486 duplexers allow simultaneous operation of a transmitter and receiver into a common antenna. These Pass-Reject duplexers are ideal for use in systems requiring maximum isolation, with close frequency spacing down to 300 KHz.

The TPRD-1484 duplexer has two, and TPRD-1486 duplexer 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 graphs for typical response curves).

Telewave duplexers have ¼-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 noise and spurious radiation, providing excellent 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.


TPRD-1486

TPRD-1484

ELECTRICAL SPECIFICATIONS		TPRD-1484	TPRD-1486
Tuning range		118-148 MHz	
Frequency separation (min)		500 KHz	300 KHz
Maximum input power		300 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 or wall mount	
Connectors		N or UHF female (opt.)	
Finish		Gray acrylic enamel	
Net weight lb. (kg)		37 (16.8)	51 (23.1)
Dimensions (HWD)		in. 30 x 19 x 17 cm (76 x 48 x 43)	in. 30 x 19 x 25 cm (76 x 48 x 63.5)
Tuners fully extended		in. 35 x 19 x 17 cm (89 x 48 x 43)	in. 35 x 19 x 25 cm (59 x 48 x 63.5)

TYPICAL RESPONSE CURVES (TPRD-1484)
