

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 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.



TPRD-1484



TPRD-1486

| 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)

