TELEWAVE, INC.

## TPRD-0384, 0484, 0584 PASS / REJECT DUPLEXER

The Telewave TPRD-0384 and TPRD-0584 allow the simultaneous operation of a transmitter and receiver into a common antenna. These duplexers feature minimum insertion loss, and maximum isolation between transmitter and receiver. The Pass-Reject design combines a bandpass response with a tunable notch at the $R X$ frequency for improved performance at close spacing.

The superior construction of Telewave cavity duplexers allows better rejection of transmitter spurious radiation, providing greater receiver protection. Selectivity and insertion loss are fully adjustable by rotating the calibrated connector loops.

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



## TPRD-0584

$50-60 \mathrm{MHz} / \pm 2.5 \mathrm{MHz}$

| SPECIFICATION | TPRD-0384 | TPRD-0484 | TPRD-0584 |
| :---: | :---: | :---: | :---: |
| Frequency coverage / tuning range | $30-40 \mathrm{MHz} / \pm 2.5 \mathrm{MHz}$ | $40-50 \mathrm{MHz} / \pm 2.5 \mathrm{MHz}$ | $50-60 \mathrm{MHz} / \pm 2.5 \mathrm{MHz}$ |
| Frequency separation (min) |  | 300 KHz |  |
| Maximum input power |  | 350 watts |  |
| Insertion loss |  | 1.0 dB (TX / RX to ant.) |  |
| RX isolation / TX noise suppression |  | 80 dB at $\pm 300 \mathrm{KHz}$ |  |
| VSWR (max) |  | 1.5:1 |  |
| Temperature range |  | $30^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |  |
| MECHANICAL SPECIFICATIONS |  |  |  |
| Dimensions (HWD) in. (cm) | $88 \times 19 \times 17(224 \times 48 \times 28)$ | $72 \times 19 \times 17(183 \times 48 \times 28)$ | $72 \times 19 \times 17$ (cm) |
| Tuners fully extended in. (cm) | $97 \times 19 \times 17(246 \times 48 \times 28)$ | $81 \times 19 \times 17(206 \times 48 \times 28)$ | $81 \times 19 \times 17(\mathrm{~cm})$ |
| Cavities |  | (4) $-8^{\prime \prime}$ |  |
| Mounting |  | 19" Rack or wall mount |  |
| Connectors |  | N or UHF female (opt.) |  |
| Finish |  | Gray acrylic enamel |  |
| Net weight lb. (kg) | 105 (48) | 86 (39) |  |

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