

## TPRD-1544C, 1544CM COMPACT PASS / REJECT DUPLEXER

The TPRD-1544C and 1544CM produce high performance in a compact design for the 148-174 MHz VHF band. These duplexers are less than 30% of the size of earlier models, and deliver greater isolation and power handling.

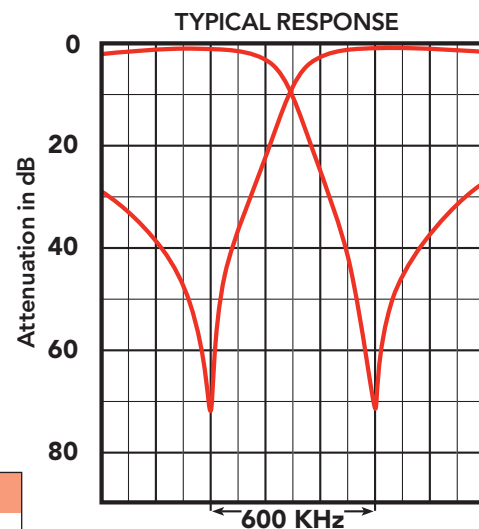
The TPRD-1544C and CM produce 70 dB isolation at 600 KHz, with 350 watt power handling, and insertion loss is 1.5 dB or less. Each duplexer fits a standard 19-inch rack, with rack height of 5.25" and 4" respectively. The TPRD-1544CM is supplied with adjustable mounting tabs for installation in a cabinet.



TPRD-1544C



TPRD-1544CM



| ELECTRICAL SPECIFICATIONS                                 |                                      |                                   |
|-----------------------------------------------------------|--------------------------------------|-----------------------------------|
| Tuning range                                              | 148-174 MHz                          |                                   |
| Frequency separation (min)                                | 600 KHz                              |                                   |
| Maximum input power                                       | 350 watts                            |                                   |
| Insertion loss TX / RX to ant.                            | 1.5 dB                               |                                   |
| TX noise suppression at RX (typ)                          | 70 dB at 600 KHz                     |                                   |
| RX isolation at TX (typ)                                  | 70 dB at 600 KHz                     |                                   |
| VSWR (max)                                                | 1.5:1                                |                                   |
| Temperature range                                         | -30°C to +70°C                       |                                   |
| Number of cavities                                        | (4) - 4"                             |                                   |
| MECHANICAL SPECIFICATIONS                                 |                                      |                                   |
|                                                           | 1544C                                | 1544CM                            |
| Mounting                                                  | 19" Rack                             | 19" Cabinet                       |
| Dimensions (HWD) in. (cm)<br>(tuning rods fully extended) | 5.25 x 19 x 15<br>(38.7 x 48 x 38.1) | 4 x 19 x 15<br>(10.2 x 48 x 38.1) |
| Connectors                                                | N or UHF female (opt.)               |                                   |
| Finish                                                    | Acrylic enamel                       |                                   |
| Net weight lb. (kg)                                       | 18.25 (8.3)                          |                                   |