

# VHF HIGH POWER BAND PASS-BAND REJECT BASE STATION DUPLEXER 136 - 174 MHz

## DVN15xxN

### Product Features

- True Band Pass Band Reject response
- Low loss
- High Q Tem resonant cavities
- Rack mounting
- Wide temperature, high stability
- INVAR control cavities
- Silver plated resonators



DVN1522N



| Specification                    | DVN1522N                                       | DVN1533N                                      |
|----------------------------------|--|---|
| Type                             | Band Pass – Band Reject Duplexer               | Band Pass – Band Reject Duplexer              |
| Frequency band                   | 136 – 174 MHz                                  | 136 – 174 MHz                                 |
| Number of cavities               | 4 total, 2 per side                            | 6 total, 3 per side                           |
| Cavity type                      | TEM ¼ wavelength                               | TEM ¼ wavelength                              |
| Cavity size                      | 8 x 8 in • 203.2 x 203.2 mm                    | 8 x 8 in • 203.2 x 203.2 mm                   |
| Tx-Rx Separation, Min            | 500 KHz  | 270 KHz                                       |
| Tx-Rx Separation, Typ            | 2.0 MHz  | 2.0 MHz                                       |
| Tx-Rx Band Width                 | 0.050 MHz                                      | 0.050 MHz                                     |
| Insertion loss Tx - Antenna, Max | 1.5dB @ 0.5 MHz split<br>1.0dB @ 2.0 MHz split | 2.2dB @0.3 MHz split<br>1.2dB @2.0 MHz split  |
| Insertion loss Antenna – Rx, Max | 1.5dB @ 0.5 MHz split<br>1.0dB @ 2.0 MHz split | 2.2dB @0.3 MHz split<br>1.2dB @2.0 MHz split  |
| Tx Noise Rejection at Rx, Min    | 80dB @0.5 MHz split<br>90dB @2.0 MHz split     | 90dB @ 0.3 MHz split<br>100dB @ 2.0 MHz split |
| Tx Carrier Rejection at Rx, Min  | 80dB @0.5 MHz split<br>90dB @2.0 MHz split     | 90dB @ 0.3 MHz split<br>100dB @ 2.0 MHz split |
| Max input power                  | 500W   | 500W  |
| Return loss, all ports           | 22dB min                                       | 22dB min                                      |
| Impedance, in/out                | 50 Ω   | 50 Ω  |
| Connectors                       | N(f)   | N(f)  |
| Temperature range                | -22° to 140° F • -30° to +60° C                | -22° to 140° F • -30° to +60° C               |
| Mounting                         | 19in rack, vertical cavities                   | 19in rack, vertical cavities                  |
| Dimension                        | 31.5 x 19 x 16.5 inches • 800 x 483 x 420 mm   | 31.5 x 19 x 25.2 inches • 800 x 483 x 640 mm  |