

# 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



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 1.0dB @ 2.0 MHz split	2.2dB @0.3 MHz split 1.2dB @2.0 MHz split
Insertion loss Antenna – Rx, Max	1.5dB @ 0.5 MHz split 1.0dB @ 2.0 MHz split	2.2dB @0.3 MHz split 1.2dB @2.0 MHz split
Tx Noise Rejection at Rx, Min	80dB @0.5 MHz split 90dB @2.0 MHz split	90dB @ 0.3 MHz split 100dB @ 2.0 MHz split
Tx Carrier Rejection at Rx, Min	80dB @0.5 MHz split 90dB @2.0 MHz split	90dB @ 0.3 MHz split 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

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