

7780.00**Triple Broadband Cross Polarized**

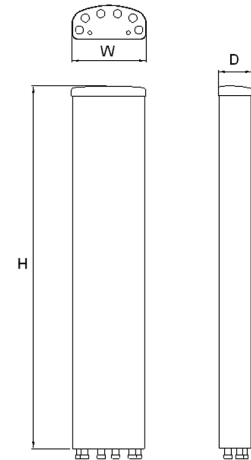
POLARIZATION: XXX-Pol
 FREQUENCY (MHz): 824-960, 2x1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi dBd): 14.7/12.6, 14.8/12.7, 14.8/12.7
 TILT: 2-12°/0-12°/0-12°
 LENGTH: 1.4m (4'7")

ELECTRICAL SPECIFICATIONS*

| | 824-960 | | 2x1710-2170 | | |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Frequency range (MHz) | 824-960 | | 2x1710-2170 | | |
| Frequency band (MHz) | 824-896 | 870-960 | 1710-1880 | 1850-1990 | 1900-2170 |
| Gain (dBi/dBd) | 14.1/12 | 14.7/12.6 | 14.4/12.3 | 14.6/12.5 | 14.8/12.7 |
| Polarization | Dual linear $\pm 45^\circ$ | | Dual linear $\pm 45^\circ$ | | |
| Nominal Impedance (Ω) | 50 | | 50 | | |
| VSWR | 1.5:1 | | 1.5:1 | | |
| Horizontal beam width, -3 dB (°) | 71 | 67 | 65 | 64 | 64 |
| Vertical beam width, -3 dB (°) | 14.9 | 13.9 | 13.3 | 12.6 | 12.0 |
| Electrical down tilt (°) | 2 - 12 | | 0 - 12 | | |
| Side lobe suppression, vertical 1st upper (dB) | >18,17,16,16@ 2,4,8,12° | >17,16,15,14@ 2,4,8,12° | >17,16,15,14@ 0,4,8,12° | >17,16,15,14@ 0,4,8,12° | >17,16,15,14@ 0,4,8,12° |
| Isolation between inputs (dB) | 30 | 30 | 30 | 30 | >30 |
| Inter band Isolation (dB) | 38 | | 38 | | |
| Tracking, horizontal plane $\pm 60^\circ$ (dB) | <1 | <2 | <1.5 | <1.2 | <4 |
| First null fill (dB) | >-25 | >-25 | >-25 | >-25 | >-25 |
| Vertical beam squint (°) | 0.7 | 0.7 | 0.7 | 1 | 1 |
| Front to back ratio (dB) 180° $\pm 30^\circ$ copolar | >27 | >28 | >28 | >28 | >28 |
| Front to back ratio (dB) 180° $\pm 30^\circ$ total power | >24 | >24 | >24 | >24 | >24 |
| Cross polar discrimination (XPD) 0° (dB) | 15 | 14 | 16 | 18 | 18 |
| Cross polar discrimination (XPD) $\pm 60^\circ$ (dB) | >9.3 | >7.7 | >6 | >5.5 | >5.5 |
| Far field coupling | <0.35 | <0.50 | <0.55 | <0.74 | <0.74 |
| IM3, 2xTx&43dBm (dBc) | <-153 | | <-153 | | |
| IM7, 2xTx&43dBm (dBc) | - | | <-160 | | |
| Power handling, average per input (W) | 300 | | 250 | | |
| Power handling, average total (W) | 600 | | 500 | | |

MECHANICAL SPECIFICATIONS*

| | |
|---|------------------------------------|
| Connector | 6 x 7/16 DIN Female |
| Connector position | Bottom |
| Dimensions, HxWxD, mm(ft) | 1408x280x125mm (4'7"x11"x4") |
| Mounting | Pre-mounted heavy duty brackets |
| Weight, with brackets, kg (lbs) | 19 (42) |
| Weight, without brackets, kg (lbs) | 13.5 (30) |
| Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N) | 415 |
| Maximum operational wind speed, m/s (mph) | 42 (93) |
| Survival wind speed, m/s (mph) | 55 (123) |
| Lightning protection | DC grounded |
| Operating Temperature | -40°C to +60°C |
| Radome Material | GRP |
| Radome colour | Light Grey |
| Packing size, HxWxD, mm (ft) | 1550x355x200 (5'1"x1'2"x7") |
| Shipping weight, kg (lbs) | 23 (50.7) |
| RET | 8210.40, 8210.10, 8230.40, 8230.10 |
| Brackets | 7256.00, 7454.00 |



*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.