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SPECIFICATIONS REVISIONS ZONE [REV] DESCRIPTION DATE APPROVED A LABEL ON THE BOTTOM April/10/07 S.H B Thicker Base for TNC Connector Sep-30-08 S.H																																																																																																																																																																						
ELECTRICAL: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">L1: (1575.42±15) MHz</th> <th colspan="3">L2: (1227.60±15) MHz</th> </tr> <tr> <th>Free Space</th> <th>3 in G.P.</th> <th>4 ft G.P.</th> <th>Free Space</th> <th>3 in G.P.</th> <th>4 ft G.P.</th> </tr> </thead> <tbody> <tr> <td>FREQUENCY:</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>RADIATION PATTERN:</td> <td colspan="3">HEMISPHERICAL</td> <td colspan="3"></td> </tr> <tr> <td>POLARIZATION:</td> <td colspan="3">RHCP</td> <td colspan="3">RHCP</td> </tr> <tr> <td>VSWR:</td> <td colspan="3">< 1.5:1</td> <td colspan="3">< 1.5:1</td> </tr> <tr> <td>IMPEDANCE:</td> <td colspan="3">50 ohms</td> <td colspan="3">50 ohms</td> </tr> <tr> <td>ANTENNA GAIN (dBic):</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>@ 90° (ZENITH):</td> <td>+ 5.0</td> <td>+ 4.7</td> <td>+ 3.1</td> <td>+ 3.3</td> <td>+ 4.5</td> <td>+ 4.5</td> </tr> <tr> <td>@ 10° Elevation:</td> <td>- 2.1</td> <td>- 1.8</td> <td>- 1.9</td> <td>- 5.8</td> <td>- 3.8</td> <td>- 3.5</td> </tr> <tr> <td>@ 20° Elevation:</td> <td>- 0.6</td> <td>- 0.3</td> <td>+ 0.6</td> <td>- 4.3</td> <td>- 2.0</td> <td>- 0.8</td> </tr> <tr> <td>@ 30° Elevation:</td> <td>+ 0.9</td> <td>+ 1.4</td> <td>+ 1.7</td> <td>- 3.4</td> <td>- 0.5</td> <td>+ 1.4</td> </tr> <tr> <td>@ 60 - 90° Elevation:</td> <td>> 4.0</td> <td>> 3.9</td> <td>> 2.4</td> <td>> - 0.9</td> <td>> 2.7</td> <td>> 2.2</td> </tr> <tr> <td>BEAM WIDTH(3dB):</td> <td>103 Deg.</td> <td>114 Deg.</td> <td>143 Deg.</td> <td>94 Deg.</td> <td>106 Deg.</td> <td>74 Deg.</td> </tr> <tr> <td>AXIAL RATIO</td> <td colspan="3">2 dB</td> <td colspan="3">2 dB</td> </tr> <tr> <td>LIGHTNING PROTECTION:</td> <td colspan="6" style="text-align: center;">DC GROUNDING</td> </tr> <tr> <td>LNA GAIN:</td> <td colspan="3">33 dB</td> <td colspan="3">35 dB</td> </tr> <tr> <td>LNA NOISE FIGURE:</td> <td colspan="3">3.0 dB</td> <td colspan="3">3.0 dB</td> </tr> <tr> <td>LNA P1dB Out:</td> <td colspan="3">+13 dBm</td> <td colspan="3">+13 dBm</td> </tr> <tr> <td>LNA DC POWER:</td> <td colspan="6">2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA</td> </tr> <tr> <td>REJECTION@ (-50/+50)MHz</td> <td colspan="3">-41 dB / -59 dB</td> <td colspan="3">-40 dB / -40 dB</td> </tr> <tr> <td>@ (-100/+100)MHz</td> <td colspan="6">< -65 dB</td> </tr> <tr> <td>POWERHANDLING</td> <td colspan="6">1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)</td> </tr> </tbody> </table>								L1: (1575.42±15) MHz			L2: (1227.60±15) MHz			Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.	FREQUENCY:							RADIATION PATTERN:	HEMISPHERICAL						POLARIZATION:	RHCP			RHCP			VSWR:	< 1.5:1			< 1.5:1			IMPEDANCE:	50 ohms			50 ohms			ANTENNA GAIN (dBic):							@ 90° (ZENITH):	+ 5.0	+ 4.7	+ 3.1	+ 3.3	+ 4.5	+ 4.5	@ 10° Elevation:	- 2.1	- 1.8	- 1.9	- 5.8	- 3.8	- 3.5	@ 20° Elevation:	- 0.6	- 0.3	+ 0.6	- 4.3	- 2.0	- 0.8	@ 30° Elevation:	+ 0.9	+ 1.4	+ 1.7	- 3.4	- 0.5	+ 1.4	@ 60 - 90° Elevation:	> 4.0	> 3.9	> 2.4	> - 0.9	> 2.7	> 2.2	BEAM WIDTH(3dB):	103 Deg.	114 Deg.	143 Deg.	94 Deg.	106 Deg.	74 Deg.	AXIAL RATIO	2 dB			2 dB			LIGHTNING PROTECTION:	DC GROUNDING						LNA GAIN:	33 dB			35 dB			LNA NOISE FIGURE:	3.0 dB			3.0 dB			LNA P1dB Out:	+13 dBm			+13 dBm			LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA						REJECTION@ (-50/+50)MHz	-41 dB / -59 dB			-40 dB / -40 dB			@ (-100/+100)MHz	< -65 dB						POWERHANDLING	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					
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MECHANICAL: SIZE: DIAMETER: 2.60 in. [66.04 mm] 0.742 [18.85] for SMA, 0.885 [22.47] for TNC WEIGHT: 4.00 oz. [113 g] for SMA, <5.33 oz. [151g] for TNC FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT CONNECTOR: SMA FEMALE (OPTION: TNC, N, MCX, MMCX, or Cable)																																																																																																																																																																						
ENVIRONMENTAL: TEMPERATURE: -67° F TO +185° F [-55° C TO +85° C] ALTITUDE: 70,000 ft. VIBRATION: > 30 G's LEAKAGE: HERMETICALLY SEAL FEDERAL & MILITARY SPECIFICATIONS: DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455 ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100																																																																																																																																																																						
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NMO Connector Option is Now Available for Some Antennas