

“-PL-” or “-AL-” for Limiter Options for High Power Pulse Protection

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ZONE		REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED

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SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42±12) MHz			L2: (1227.60±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP/LHCP					
VSWR:	< 2.0:1			< 2.0:1		
IMPEDANCE:	50 ohms			50 ohms		
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+2.7	+4.7	+3.1	+1.5	+3.3	+4.5
@ 10 ° Elevation:	-4.4	-1.8	-1.9	-6.7	-3.8	-3.5
@ 20 ° Elevation:	-2.3	-0.3	+0.6	-5.6	-2.0	-0.8
@ 30 ° Elevation:	-0.8	+1.4	+1.7	-4.5	-0.5	+1.4
@ 60 - 90 ° Elevation:	> 2.0	> 3.9	> 2.4	> 0.0	> 2.7	> 2.2
BEAM WIDTH (3dB):	113 Deg.	114 Deg.	143 Deg.	85 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING					

LNA OPTION:

LNA GAIN: (21.0+/-2.0) dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.912 in. [48.56mm] SQ.
 HEIGHT: 0.36 in. [9.02 mm]
 WEIGHT: 2.4 oz. (69 g)
 FINISH: SKYDROL RESISTANT POLYURETHANÆENAMEL BASE IRIDI TE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE
 CONNECTOR: 20 IN SSMC MALE CABLES (OPTION: SMC, SMB, SSMB, SMA, PIN, TNC, TNC-Bulkhead, N, N-Bulkhead, 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 AND MIL-STD-810

1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

P/N: 1.9G1215P2-20SSMCB-3

SIZE:	FREQ. BAND:	POLARIZATION:	LNA OPTIONS:
1.2" SQ.	1215 L1/L2	A2: WITH 20 dB LNA	A2: WITH 20 dB LNA
1.9" 1.9" SQ.	15: L1 ONLY	A4: WITH 40 dB LNA	A4: WITH 40 dB LNA
2.3" 2.3" SQ.		P: WITHOUT LNA	P: WITHOUT LNA
2: 2.6" DIA.		P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION	P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
3: 3.5" DIA.		P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION	P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA, P: P2 PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	N: NB: R: R-SMA	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37036 PER FED-STD-595B

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ANTCOM CORP. TORRANCE, CALIFORNIA

1.9" SQUARE, L1/L2 PASSIVE
RHCP/LHCP GPS ANTENNA

DATE	BY	CHKD	ENG	APPD	DATE	SCALE	SHEET
05-08-08	S. HUYNH			S. HUYNH	June-05-08	1/1	1 OF 1

DRAWING NO: 1.9G1215P2-20SSMCB-3
 CASE NO: 3CVE1
 ORIGINAL DOCUMENT IDENTIFICATION: 3CVE1

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DO NOT SCALE DRAWING

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Wide Band GNSS Option Is Available

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>
 Amplifiers/Power Divider/Combiner/Filter: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf>