



FAA Approved Facility

New 4-Ports Active L1/L2 GPS, Passive GSM, Passive Rx/Tx-Inmarsat/Iridium & Passive Rx/Tx-Thuraya/Tx-Globalstar Antenna, P/N: 5G09L1L2TIR-PAP2-XS4-2;
Underwater Application, P/N: 5G09L1L2TIR-PAP2-XS4-2-U
(5.04"x2.2"x0.9"), Flat, Top/Pipe Mount, Bottom Connector Configuration

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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5.040 [128.02]
4.237 [107.63]
2.214 [56.24]
1.600 [40.64]
.900 [22.86]
1.656 [42.07]
0.600 [15.24]

4X R.101 [R2.55] THRU
√φ.385 [φ9.78] X 100"

4X SMA FEMALE CONNECTOR
(OPTION: QMA, TNC, N, SMB,
MCX, or MMCX)

O-RING P/N: 2-038-N756-75

SPECIFICATIONS

ELECTRICAL:

	L2	L1	Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP) & Rx-Thuraya (LHCP)	IRIDIUM, L1 GLONASS (RHCP) & Tx-Globalstar (LHCP)	Tx Inmarsat (RHCP) & Tx-Thuraya (LHCP)	GSM
FREQUENCY:	(1227.60 ±15) MHz	(1575.42 ±15) MHz	(1542.5 ± 17.5) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz	Vehicle / Horizontal (876-960) MHz
RADIATION PATTERN:	HEMISPHERICAL					OMNI
VSWR:	< 2.0:1					
IMPEDANCE:	50 ohms					
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):	+1.8	+5.3	+4.6	+2.9	+3.3	+0.8
@ 10° Elevation:	-4.2	-2.3	-2.5	-1.8	-3.9	-5.0
@ 20° Elevation:	-2.9	+0.4	-1.1	+0.7	-2.3	-1.2
@ 30° Elevation:	-2.0	+2.3	+0.5	+1.7	-1.1	+0.4
@ 60-90° Elevation:	>+0.9	>+3.2	>+3.6	>+2.1	>+2.4	>+1.4
BEAM WIDTH (3dB):	108 Deg.	120 Deg.	103 Deg.	146 Deg.	135 Deg.	92 Deg.
AXIAL RATIO:	2.0 dB		2.0 dB		1.0 dB	1.5 dB
LIGHTNING PROTECTION:	DC GROUNDING					
LNA NOISE FIGURE:	33 dB Gain					
LNA GAIN:	3.0 dB					
LNA P1dB Out:	+13 dBm					
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA					
REJECTION @ (-50/+50) MHz	-40 dB / -40 dB					
@ (-100/+100) MHz	< -65 dB					
POWER HANDLING:	1 Watt CW (WITH LNA)					200 Watts CW

MECHANICAL:

SIZE: WIDTH: 2.214 in. [56.24 mm], LENGTH: 5.040 in [128.02 mm],
HEIGHT: 0.900in. [22.86 mm]

WEIGHT: 10.4 oz. (295g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE
(OPTION: 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 SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

FREQ. BAND:	GPS LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
08: CELLULAR (824-894) MHz (US/Canada)	1516: L1 GPS & (Inmarsat/Iridium)	A: WITH LNA	X: NO CABLE	S: SMA; Q:QMA
09: GSM (876-960) MHz (Europe/Asia/Africa/M-East)	& (Thuraya/Tx-Globalstar)	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX
18: DCS (1710-1880) MHz (Europe/Asia/Africa/M-East)	L1L2TIR: L1/L2 GPS & (Inmarsat/Iridium) & (Thuraya/Tx-Globalstar)	A2: WITH 20dB LNA	#: CABLE LENGTH (IN)	N: N; T: TNC
19: PCS (1850-1990) MHz (US/Canada)		R: RIGHT ANGLE CON.	SMB:SMB	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
Q4: QUAD BAND (All 4 bands above)				-5: DESERT TAN #33446 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	FILM NO
4	MONTING SCREWS: 10-32, 100° Flat Head, 1"	J507C1032R16		2
1	O-RING	2-038-N756-75	-	1

ANTCOM CORP. TORRANCE CALIFORNIA

Combined Avionics GPS, GSM (RHCP-Inmarsat/Iridium) & (LHCP-Thuraya/Tx-Globalstar) Antenna

SCALE: 1/1

SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas

P/N: 5G09L1L2TIR-PAP2-XS4-2