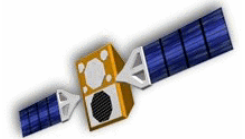




ISO 9001:2008/FAA Approved Facility

“Not Yet Approved” GAT-17QP SDVM Passive Antenna, P/N: CV90-C6635-1 Rev C (4.2G1625LL-PA-XSS-1 Rev B) (4.2x2.2x0.7)in, Bottom Mount: Outline Drawing

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



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ELECTRICAL SPECIFICATIONS

	TX	RX
FREQUENCY:	(16100 - 1626.5) MHz	(24835 - 2500.0) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	LHCP	LHCP
VSWR:	< 2.0:1	< 2.0:1
Ave. GAIN (dBic):	Free Space	Free Space
@ 90° (Zenith, Top):	+5.7	+5.1
@ 10° Elevation:	-2.0	-2.1
@ 20° Elevation:	-0.1	-0.3
@ 30° Elevation:	+1.6	+1.1
@ 45° Elevation:	+3.0	+2.6
@ 70° Elevation:	+5.0	+4.6
AXIAL RATIO @ Zenith:	2.0 dB	2.0 dB
3dB BEAM WIDTH:	98°	99°
POWER HANDLING:	< 5 W	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)	
Tx/Rx COUPLING:		
PASSIVE (without LNA)	< -24 dB @ Tx Band	< -32 dB @ Rx Band
ACTIVE (with LNA)	< -40 dB @ Tx Band	< +12 dB @ Rx Band
FILTER REJ.:	(824-894) MHz	> 55 dB
(1610-1626.5) MHz	N/A	> 43 dB
(3220-3253) MHz		> 20 dB
(4830-4879.5) MHz		> 20 dB

LNA OPTION:

	N/A	(34 +/- 2) dB
LNA GAIN:		
LNA NOISE FIGURE	N/A	2.4 dB
LNA INPUT P1dB:	N/A	> -23 dBm
LNA VOLTAGE	N/A	(+2.5 to +30) Volts DC
LNA DRAWING CURRENT:	N/A	38 mA

MECHANICAL:

SIZE: WIDTH: 2.21 in. [56 mm], LENGTH: 2.21 in. [56 mm], HEIGHT: 0.72 in. [18 mm]

WEIGHT: 7.5 oz. (213 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL AND NICKEL PLATING

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

CONNECTOR: Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE (OPTIONAL: N, TNC, MCX, MMCOX, OR CABLE)

MOUNTING: FLAT FIXED MOUNT: O-RING, WITH 4 x 6-32 SCREWS

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

CONFIGURATION:

1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A: WITH LNA	CABLE LENGTH	Tx/Rx CONNECTOR	COLOR
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX: MM: MMCOX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		#: CABLE LENGTH (IN)	N: N: NB: N: Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
4: MINI ARINC (FLAT)			R: RIGHT ANGLE CON.	T: TNC, TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
5: 5" x 2.2" FLAT					
4.2: 4.2" x 2.2" FLAT					
7.3: (HELIX)					

Dimensions: 4.156 [105.56] (Length), 2.214 [56.24] (Width), 0.721 [18.31] (Height), 7.84 [19.91] (Cable Length), 9.37 [23.80] (Cable Length), 0.148 [3.77] (Screw Spacing), 4x 0.1016 [25.82] (Screw Dia), 4x 6-32 UNC-2B X 0.160 (Screw), 4x 0.707 [17.96] (Screw Length), 0.143 [3.63] (Screw Spacing), 0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead), 0.357" [9.07] (SMA), 0.83" [21.00] (TNC-Bulkhead), 0.200" [5.08] (MCX)

Callouts: 4x R.850 [R21.59] (Mounting Screws), SMA FEMALE (Blue, Rx) (+2.5 to +30) Volts DC, NAMEPLATE, SMA FEMALE (RED, Tx)

CONTRACTOR'S PARTS LIST

QUANTITY REQD	DESCRIPTION	PART NO	REF NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	3
1	O-RING/Gasket	2-038-N756-75/56-Gasket-1 (Item 546)	1

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

FRACTIONS: DECIMALS: ANGLES: ± 1/64 ± .005 ± 1°

REMOVE ALL BURRS, BREAK EXTERNAL EDGES .005 TO .015 FILED & .005 TO .010 SMOOTH. SLOTTED SCREWS PER MIL-C-5541 UNLESS OTHERWISE SPECIFIED. MACHINED SURFACES.

APPROVED: S. HUYNH DEC-04-04

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT FIXED MOUNT GLOBALSTAR ANTENNA

FILE NO: 3CVE1

SCALE: 1/1

DATE: 4.2G1625LL-PA-XSS-X

SHEET 1 OF 1