



Broad Band Antennas

For EMI/EMC, Jamming, and Other Telecommunication Applications

ISO 9001:2008/FAA Approved Facility



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>





Conical Spiral Antenna, P/N: 1010920-01:



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			<p>ELECTRICAL:</p> <p>FREQUENCY: (1 - 8) GHz PATTERN: HEMISPHERICAL POLARIZATION: LHCP ANTENNA GAIN: 1 GHz: 2.5 dBic, 2 GHz: 1.0 dBic, 4 GHz: 2.5 dBic, 8 GHz: 1.5 dBic</p> <p>BEAM WIDTH: (70 to 120) degrees VSWR: 2.7:1 OUTPUT IMPEDANCE: 50 Ω POWER HANDLING: 50 watts AXIAL RATIO: 3dB</p> <p>MECHANICAL:</p> <p>SIZE: Height: <4.90 in [124 mm], Dia: 5.37 in [136mm] WEIGHT: 8.89oz. (252 g) FINISH: NATURAL MATTE</p> <p>MATERIAL: THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE CONNECTOR: SMA FEMALE</p> <p>MARKING: 62065-1010920-01 Rev A MFR-24930 S/N:xxxxxx</p> <p>ENVIRONMENTAL:</p> <p>TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C] ALTITUDE: 70,000 ft. VIBRATION: 12 G's</p> <p>FEDERAL & MILITARY SPECIFICATIONS:</p> <p>DESIGN TO: DO-160D, MIL-C-6541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810</p>																															
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2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; text-align: center;">6</td> <td style="width:15%; text-align: center;">5</td> <td style="width:15%; text-align: center;">4</td> <td style="width:15%; text-align: center;">3</td> <td style="width:15%; text-align: center;">2</td> <td style="width:15%; text-align: center;">1</td> </tr> </table>	6	5	4	3	2	1																							
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UHF Yagi , Log-Periodic and Spiral Antennas

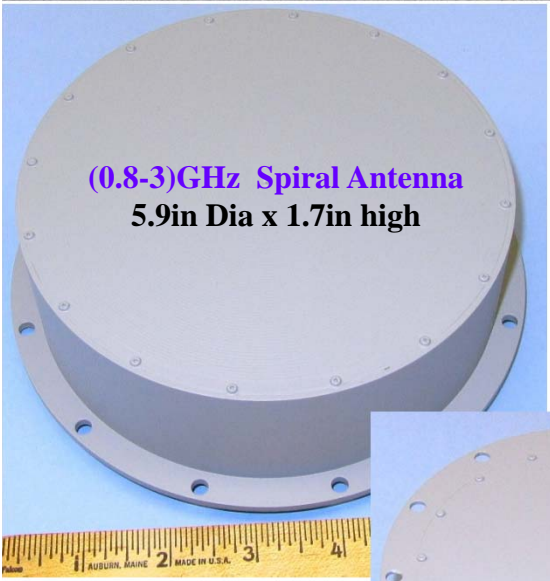


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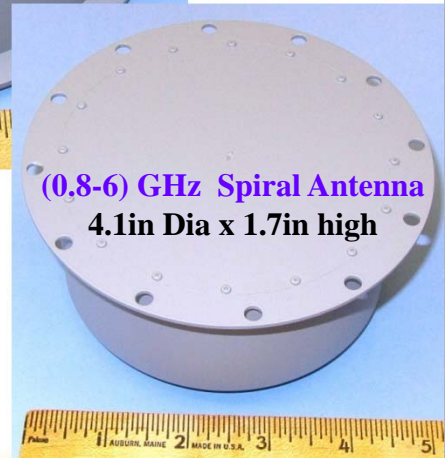
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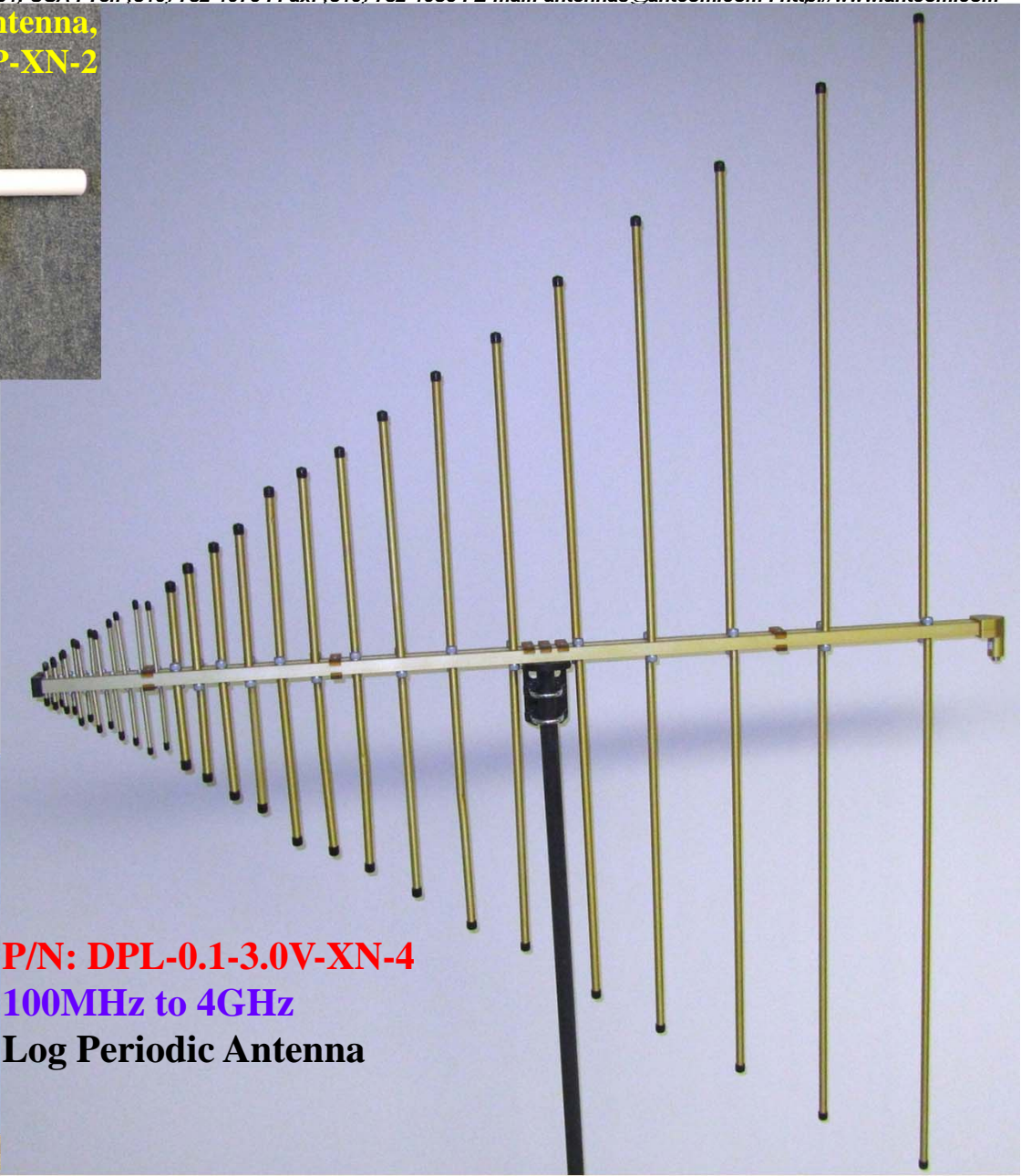
**(420-520) MHz UHF Yagi Antenna,
P/N: 25U420-520H-P-XN-2**



**(0.8-3)GHz Spiral Antenna
5.9in Dia x 1.7in high**



**(0.8-6) GHz Spiral Antenna
4.1in Dia x 1.7in high**



**P/N: DPL-0.1-3.0V-XN-4
100MHz to 4GHz
Log Periodic Antenna**



(4.4-6.8) GHz, C-Band Spiral Antenna, P/N: 1S-ISM58R-XS-1

1" Dia. x 1" High Configuration



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C-BAND ANTENNA
P/N: 1S-ISM58R-XS-1
S/N: DEMO, wt. 0.5oz.
Antcom Corporation
Torrance, CA, USA

(0.8-3)GHz Spiral Antenna
5.9in Dia x 1.7in high

(0.8-6) GHz Spiral Antenna
4.1in Dia x 1.7in high

SMA FEMALE
(TNC OR N BULKHEAD IS ALSO AVAILABLE)

Ø 1.00 [25.40]

Ø .83 [21.16]

Ø .40 [10.16]

Ø 6

1S-ISM58R-XS-1

LNA:
R: RHCP
L: LHCP

CABLE'S LENGTH:
X: NO CABLE
M: WITH MAG. MOUNT
#: CABLE LENGTH (IN)
R: RIGHT ANGLE CON.

CONNECTOR:
T: TNC (Optional Bulkhead)
S: SMA
N: N (Optional Bulkhead)
P: PIN; M: MCX

SPECIFICATIONS

ELECTRICAL:

FREQUENCY: (4400-6800) MHz
PATTERN: HERMISPHERICAL
POLARIZATION: RHCP (P/N:1S-ISM58L-XS-1 FOR LHCP)
ANTENNA GAIN : 3.0 dBic
BEAM WIDTH: 80°
VSWR: 2.0:1
OUTPUT IMPEDANCE: 50 Ω
POWER HANDLING: >50 watts

MECHANICAL:

SIZE: DIA.: 1.00 in. [25.40 mm]
HEIGHT: 0.83 in. [21.16 mm]

WEIGHT: 0.5 oz. (14.17 g)

FINISH: TOP: SKYDROL RESISTANT POLYURETHANE ENAMEL
HOUSING: IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY HOUSING
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA FEMALE
(TNC OR N BULKHEAD IS ALSO AVAILABLE)

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, AND MIL-STD-810

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

QUANTITY	REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
		PARTS LIST					

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .005 ± .1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON 2 ± .005
MACHINED SURFACES 125

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
ISM/C-BAND SPIRAL
ANTENNA

APPROVED: S. HUYNH
Sep-19-01

SIZE: D CASE NO: 3CVE1 DRAWING NO: 1S-ISM58R-XS-1 REV: -

SCALE: 1/1 SHEET: 1 OF 1



DUAL RIDGE (2-18) GHz HORN ANTENNA

P/N: AH-218-N-X



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6	5	4	3	2	1																						

P/N: AH-218-N-X



(18-40) GHz Omni-Bicone / Active L1/L2 GPS ANTENNA



P/N: 3GL1L2K-RSL-ALP-XSSK-2

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		REV NO		REV 1		REV 2		REV 3		REV 4		REV 5		REV 6	
		ZONE	REV	DESCRIPTION		DATE	APPROVED								
		SPECIFICATIONS													
		ELECTRICAL:													
		FREQUENCY:		L1: (1575.42 ±15) MHz		L2: (1227.60 ±15) MHz		(18-40) GHz							
		RADIATION PATTERN:		HEMISPHERICAL		HEMISPHERICAL		OMNI							
		POLARIZATION:		RHCP		RHCP		+45° Slant Linear							
		VSWR:		< 1.5:1		< 1.5:1		< 3:1							
		IMPEDANCE:		50 ohms		50 ohms		50 ohms							
		ANTENNA GAIN (dBc):		Free Space		4 ft G.P.		Free Space		4 ft G.P.					
		@ 90° (ZENITH):		+ 4.7		+ 3.5		+ 3.3		+ 4.9					
		@ 10° Elevation:		- 1.8		- 2.0		- 3.8		- 3.6					
		@ 20° Elevation:		- 0.3		+ 0.8		- 2.0		- 0.1					
		@ 30° Elevation:		+ 1.4		+ 1.8		- 0.5		- 1.8					
		@ 60 - 90° Elevation:		> 3.9		> 2.8		> 2.7		> 3.0					
		BEAM WIDTH (3dB):		114 Deg.		139 Deg.		106 Deg.		75 Deg.				(40-60) Deg.	
		AXIAL RATIO:		2 dB		2 dB									
		LIGHTNING PROTECTION:		DC GROUNDING		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		< -65 dB									
		POWER HANDLING:		1 Watt CW, 2000 Watts 1 Microsec Pulse (-AL-)										2.5 Watt CW	
		MECHANICAL:													
		SIZE:		DIAMETER: 3.133 in. [79 mm]		DIAMETER: 3.133 in. [79 mm]									
		HEIGHT:		2.717 in. [69 mm]		2.717 in. [69 mm]									
		WEIGHT:		13 oz. (368 g)		13 oz. (368 g)									
		FINISH:		SKYDROL RESISTANT POLYURETHANE ENAMEL		SKYDROL RESISTANT POLYURETHANE ENAMEL									
		BASE:		IRIDITE PER MIL-C-5541F		IRIDITE PER MIL-C-5541F									
		LUSTERLESS GRAY #36320 PER FED-STD-595B													
		MATERIAL:		6061-T6 ALUMINUM ALLOY BASE		6061-T6 ALUMINUM ALLOY BASE									
		CONNECTOR:		GPS: SMA FEMALE, K/Ka-BAND: K Connector		GPS: SMA FEMALE, K/Ka-BAND: K Connector									
		OPTION:		TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable		TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable									
		ENVIRONMENTAL:													
		TEMPERATURE:		-67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)		-67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)									
		STORAGE:		-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)		-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)									
		ALTITUDE:		70,000 ft.		70,000 ft.									
		VIBRATION:		> 30 G's		> 30 G's									
		LEAKAGE:		HERMETICALLY SEAL		HERMETICALLY SEAL									
		HAILSTONES:		< 0.5" Dia.		< 0.5" Dia.									
		FEDERAL & MILITARY SPECIFICATIONS:													
		DESIGN TO:		FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455		FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455									
				MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A		MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A									

MECHANICAL:

SIZE: DIAMETER: 3.133 in. [79 mm]
HEIGHT: 2.717 in. [69 mm]

WEIGHT: 13 oz. (368 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE: IRIDITE PER MIL-C-5541F
LUSTERLESS GRAY #36320 PER FED-STD-595B

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

CONNECTOR: GPS: SMA FEMALE, K/Ka-BAND: K Connector
OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

HAILSTONES: < 0.5" Dia.

FEDERAL & MILITARY SPECIFICATIONS:
DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455
MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A

SIZE	FREQ. BAND	GPS LNA
1: 2" SQ	1215: L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.9: 1.9" SQ	15: L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.	L1/L2K: L1/L2/	P: WITHOUT LNA
3: 3.5" DIA.	K-BAND	PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

NAMEPLATE APPROXIMATE LOCATION

4x Tapped Holes for 10-32 Screws 0.120" Deep, Equally Spaced on 2.687in Dia. BC for Optional Mounting

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

GPS/K-Band Polarization:	GPS/K-Band Connector:	COLOR:
R: RHCP; L: LHCP	S: SMA; RS: R-SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
SL: SLANT LINEAR	K: K; M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
V: VERTICAL	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
H: HORIZONTAL	T: TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

P/N: 3GL1L2K-RSL-ALP-XSSK-2

ANTCOM CORP. TORRANCE CALIFORNIA

ACTIVE L1/L2 GPS & K-Band ANTENNA

D 3CVE1 3GL1L2K-RSL-ALP-XSSK-2 SCALE 1/1 SHEET 1 OF 1



ISO 9001:2008/FAA Approved Facility

(1-2 GHz) **Helix Antenna, P/N: 18x6.3H1215R-P-XS-1**
2.5" Diameter x 18" Tall, Front/Back Mount Configuration, for Space Applications
 with **SMA, TNC, N, or BNC Connector Options**



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
	1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609.0 ± 7.0 MHz

GAIN (dBic) in FS + 11.5 dBic

AXIAL RATIO (dB) 1 to 2

RADIATION PATTERN: HEMISPHERICAL

POLARIZATION: RHCP

VSWR: < 1.7 : 1

POWER HANDLING: 200 watts

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50 mm], BASE DIA = 6.30 in[160.02 mm]
HEIGHT = 18 in. [457 mm]

WEIGHT: 16.75 oz. (475 +/-10) grams

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

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

CONNECTOR: SMA-Female
 (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -166 °F TO +248 °F [-110 °C TO +120 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's

FEDERAL & MILITARY SPECIFICATIONS:

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

ZONE	REV	DESCRIPTION	DATE	APPROVED

QUANTITY REQ

QTY	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING SCREW: (M5 Pan Head Phillips, 10mm)	90116A250	-	5
4	MOUNTING SCREW: (M5 Pan Head Phillips, 20mm)	90116A260	-	4
1			-	3
1			-	2
1			-	1

PARTS LIST

HIGH (in):	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	LR: TX: RHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
	L: LHCP				

P/N: 18x6.3H1215R-P-XS-1

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
GPS/GLONASS/IRIDIUM/
INMARSAT HELIX ANTENNA

DRAWN: S. HUYNH
DEC-07-09

SCALE: 1/1

SHEET 1 OF 1



L1/L2 GPS/L-Band (1-2 GHz) **Helix Antenna, P/N: 18x2.5H1215R-P-XN-1**
2.5" Diameter x 18" Tall, Front/Back Mount Configuration, 500 watts
with N, SMA, TNC, or BNC Connector Options



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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
	1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1262.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609.0 ± 7.0 MHz

GAIN (dBic) in FS + 11.5 dBic

AXIAL RATIO (dB) 1 to 2

RADIATION PATTERN: HEMISPHERICAL

POLARIZATION: RHCP

VSWR: < 1.7 : 1

POWER HANDLING 500 watts

ELECTRICAL:

4x1.061 [26.94]
 4x#8-201 [45.11] Thru for 10-32 Screws
 #3.500 [88.90]
 #2.500 [63.50]
 4x1.061 [26.94]

MECHANICAL:

SIZE TOP DIA = 2.50 in [63.50mm], BASEDIA = 3.50 in [88.90mm]
 HEIGHT = 18 in. [457 mm]

WEIGHT: 17.6oz. (500g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
 BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A

COLOR: GLOSS WHITE #17925PER FED-STD-595B
 LUSTERLESSGRAY #36320PER FED-STD-595B
 OLIVE DRAB GREEN#34031 PER FED-STD-595B
 LUSTERLESSBLACK#37038PER FED-STD-595B

MATERIAL: 6061-T6ALUMINUMALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: N-Female
 (OPTION: TNC, SMA, N-Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLYSEALED

FEDERAL & MILITARY SPECIFICATIONS

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

QUANTITY REQD

QTY	DESCRIPTION	PART NO	FINISH	REV
4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/2")	MS51958-63	-	5
4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")	MS51958-59	-	4
1	Pipe Mount (Item 482m, without Thread insert)	MTR-2-mod	-	3
1				2
1				1
-1	DESCRIPTION			

MECHANICAL:

16.000 [457.20]
 .300 [7.62]
 .725 [18.42]
 4x10-32 Threads x0.225in Deep
 2x2.687 [68.25]
 N-Female Connector
 1.000 [25.40] SQ.

ENVIRONMENTAL:

MS51958-59

FEDERAL & MILITARY SPECIFICATIONS

MS51958-59

CONNECTION TABLE

HIGH (in):	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
	LL: TX: LHCP, RX: RHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MMCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP		#F: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: LHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
	L: LHCP				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS DECIMALS ANGLES
 ± 1/64 ± .015 ± 1°
 ± 1/32 ± .005 ± .005

TOLERANCE 51M PER ANSI Y14.5

REPOF ALL SURFES
 BRING TO DIM. EDGES .006 TO .016
 HOLE TO DIM. ± .004
 SREW THREADS PER MIL-S-8879
 DAT ON A COARSE Q. 25.006
 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
 IRIDIUM/GPS/GLONASS/
 INMARSAT HELIX ANTENNA

REV: 1
 DATE: 3/20/11
 DRAWN: S. HUYNH
 DEC-07-09

3CWE1 18x2.5H1215R-P-XN-1

SCALE 1/1 SHEET 1 OF 1

P/N: 18x2.5H1215R-P-XN-1



L1/L2 GPS/L-Band (1-2 GHz) **Helix Antenna, P/N: 18x2.5H1215R-P-XN-1-J**
2.5" Diameter x 18" Tall, Front/Back Mount Configuration,
500 watts, Low side/Back Lobes for Jamming Applications
with N, SMA, TNC, or BNC Connector Options



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SPECIFICATIONS

ELECTRICAL:	
FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS 1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz
	L2 GPS B2 Compass 1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz
	L2 GLONASS E6 Galileo B3 Compass 1262.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz
	OmniSTAR / L-Band L6 Galileo B1 Compass 1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz
	L1 GPS E1, E2 Galileo L1 IRNSS 1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz
	L1 GLONASS 1609.0 ± 7.0 MHz
GAIN (dBic) in FS	> + 10.5 dBic
SIDE/BACK LOBES:	< -20 dB
AXIAL RATIO (dB)	1 to 2
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.7 : 1
POWER HANDLING	500 watts

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50mm], BASE DIA = 3.50 in [88.90mm]
 HEIGHT = 18 in. [457 mm]

WEIGHT: 33.5oz. (950 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

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

CONNECTOR: N-Female
 (OPTION: TNC, SMA, N-Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000ft.
 VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

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

ZONE	REV	DESCRIPTION	DATE	APPROVED

2.500 [63.50] Dia.
 13.875 [352.43]
 18.000 [457.20]
 3.500 [88.90]
 4.125 [104.78]
 Ø10.750 [Ø273.05]
 Ø10.250 [Ø260.35]
 4x10-32 Threads x0.225in Deep
 2.687 [68.25]
 N-Female Connector
 1.000 [25.40] SQ.
 2.687 [68.25]

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

HIGH (in):	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
LL: TX: LHCP, RX: LHCP	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
LR: TX: LHCP, RX: RHCP	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MMCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
RL: TX: RHCP, RX: LHCP	RL: TX: RHCP, RX: LHCP		#: CABLE LENGTH (IN)	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
RR: TX: RHCP, RX: RHCP	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
R: RHCP	R: RHCP				
L: LHCP	L: LHCP				

QUANTITY	DESCRIPTION	PART NO	ITEM NO
8	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")	MS51958-59	5
1	Pipe Mount (Item 482m, without Thread insert)	MTR-2-mod	4
1			3
1			2
1			1

P/N: 18x2.5H1215R-P-XN-1-J

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .015 ± 1°

TOLERANCE SURF PER ANSI Y14.5

REWORK ALL SURF PER MIL-STD-883C METHOD 2000 TO .015

REWORK EXTERNAL EDGES TO .015

USE TORQUE 1/8" DIA SCREW TORQUES PER MIL-STD-883C PART 3 ON A COARSE Q 22 .006

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN IRIIDIUM/GPS/GLONASS/INMARSAT HELIX ANTENNA

DESIGNED BY: S. HUYNH
 DEC-07-09

CAP FILE NO: D 3CVE1

SCALE 1/1

SHEET 1 OF 1



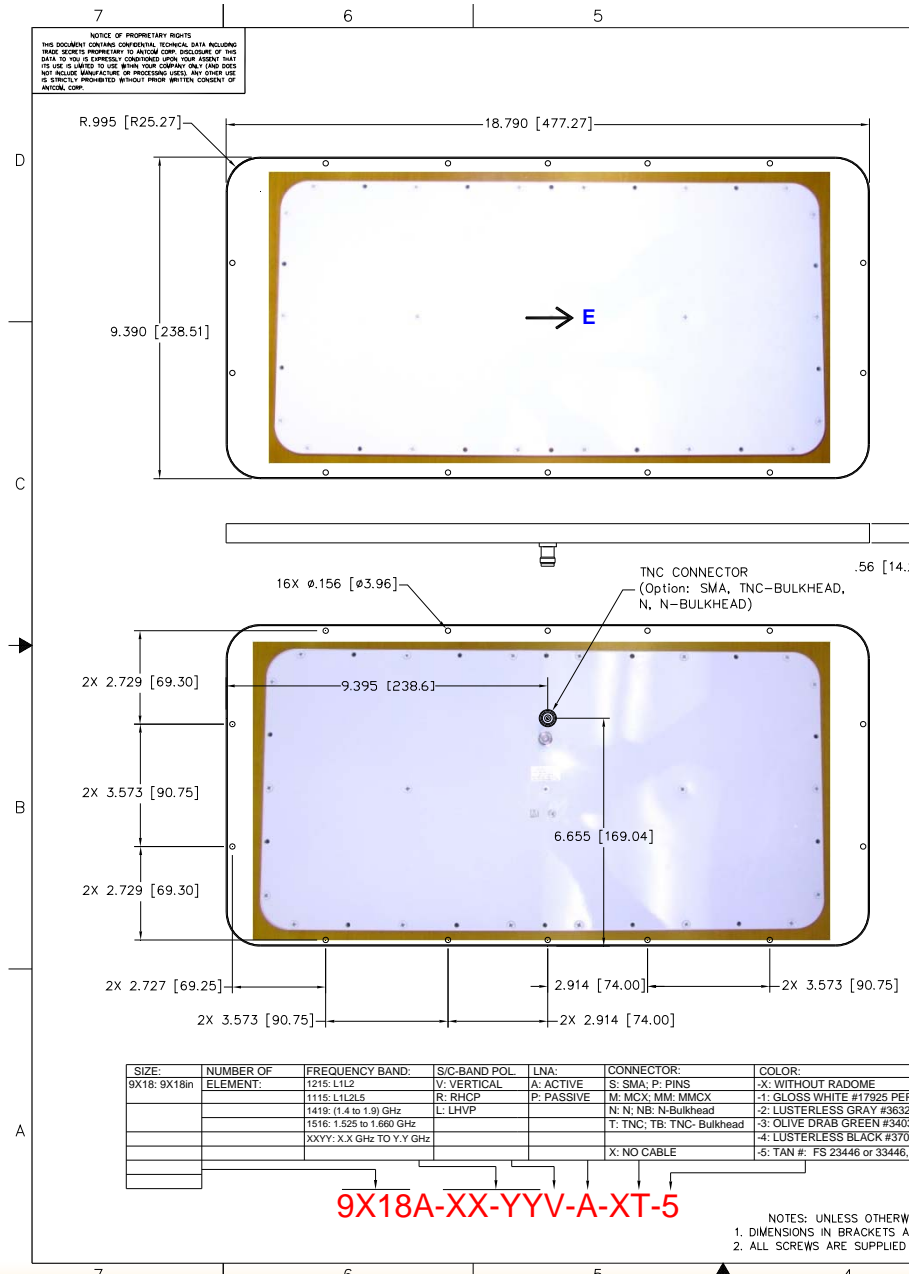
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High Gain L-BAND Antenna, P/N: 9X18A-XX-YYX-A-XX-X



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SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:
FREQUENCY: L-BAND
PATTERN: (X.XX - X.XX) GHz - See Below Table for P/N
DIRECTIONAL: DIRECTIONAL
POLARIZATION: RHCP, LHCP, or LINEAR - See Below Table for P/N
ANTENNA GAIN: 13 dB
BEAM WIDTH (deg): 20 X 40
VSWR: 2.0:1
OUTPUT IMPEDANCE: 50 ohms
POWER HANDLING: 100 watts
DC GROUNDING: YES

LNA OPTION:
LNA GAIN: 33 dB (P1dBout = +13 dBm)
LNA NOISE FIGURE: 2.2 dB
LNA VOLTAGE: (+2.5 to +24) Volts DC
LNA DRAWING CURRENT: < 30 mA

MECHANICAL:
SIZE: 9.39in x 18.79in x 0.56in
WEIGHT: 2.33 lb (1.06 Kg)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR: TNC FEMALE (OPTION: SMB, SMA, N, MCX, MMCX OR BNC)

ENVIRONMENTAL:
TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 30,000 ft.
VIBRATION: > 20 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

SIZE:	NUMBER OF ELEMENTS:	FREQUENCY BAND:	S/C-BAND POL.	LNA:	CONNECTOR:	COLOR:
9X18: 9X18in	1215: L1L2	1115: L1L2L5	V: VERTICAL	A: ACTIVE	S: SMA; P: PINS	X: WITHOUT RADOME
	1419: (1.4 to 1.9) GHz	L: LHVP	R: RHCP	P: PASSIVE	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
	1516: 1.525 to 1.660 GHz		L: LHVP		N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	XXYY: XX GHz TO Y.Y GHz				T: TNC; TB: TNC- Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
					X: NO CABLE	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
						-5: TAN #: FS 23446 or 33446, FED-STD-595

9X18A-XX-YYV-A-XT-5

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY	DESCRIPTION	PART NO	FINISH	ITEM NO.
1	OPTIONAL XFL RF CABLE	SMA-M-LRM200-XFL-SMB-M	-	3
1	1/3-20 ANTENNA MOUNT	HGX-PMT03	-	1

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
DRAWINGS ARE IN INCHES	TORRANCE CALIFORNIA
TOLERANCES ARE:	
FRACTIONS: DECIMALS: ANGLES:	
± 1/64 ± .005 ± .010	
REMOVE ALL BURRS	
BREAK EXTERNAL EDGES .005 TO .015	
FILLET R .005 TO R .010	
SCREW HEADS PER MIL-S-8879	
DAYS ON A COMMON 1/2" DIA	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

DATE	CHKD	APP'D	SCALE	SHEET	OF
Mar-12-12	S. HUYNH		1/1	1	1



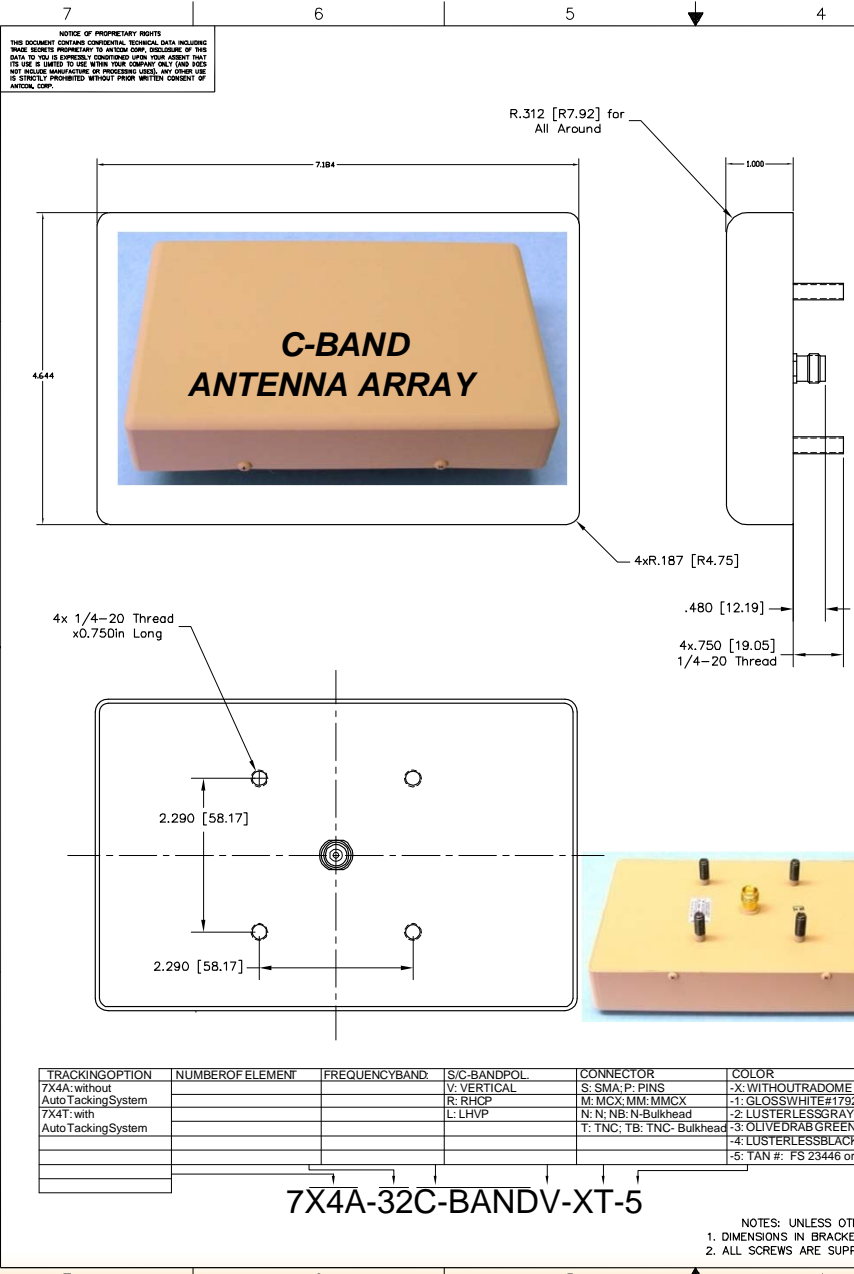
(4.0 -6.0) GHz High Gain C-Band Antenna Array, P/N: 7X4A-32C-BANDV-XT-5,

Rev A for Video/Data link Applications : Antenna Outline Drawing



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SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A	1/4-20	Threaded holes to Stubs	July-2006 S.H

ELECTRICAL:
 FREQUENCY : C-BAND (4000 - 6000) MHz
 PATTERN : DIRECTIONAL
 POLARIZATION : VERTICAL
 ANTENNA GAIN : 16.5 dB @ 4.4 GHz, 18.5 dB @ 5.85 GHz
 BEAM WIDTH (deg): (EL=32, Az=20) @ 4.4 GHz, (EL=26, Az=15) @ 5.85 GHz
 VSWR : 1.7:1
 OUTPUT IMPEDANCE: 50 ohms
 POWER HANDLING : 100 watts

AUTO TRACK OPTION:
 TRACKING : 360 Deg Azimuth @ (0.04 to 0.9) Deg/Sec
 TRACKING MODE: Sum/Different Mode, or Beacon Signal Level: >100 mV Demodulated DC
 ACQUISITION TIME: <35 sec @ (10 deg/sec)
 DC POWER SUPPLY: +24 Vdc/3 Amp.

MECHANICAL:
 SIZE: ANTENNA: (Width= 7.18in x Width= 4.64in x Thickness= 1in)
 ANTENNA & TRACKING SYSTEM: 6.3in High x 7.7 Dia.
 WEIGHT: 0.5 lb (227 grams), WITH AUTO TRACK: < 2.5 lbs (1.13 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: TNC FEMALE (OPTION: SMB, SMA, N, MCX, MMCX OR CABLES)

ENVIRONMENTAL:
 TEMPERATURE : -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 30,000 ft.
 VIBRATION: > 20 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

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	TEMP REQ
8	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
		2-038-N756-75	-	-	3
					1

TRACKING OPTION	NUMBER OF ELEMENT	FREQUENCY BAND	S/C BAND POL	CONNECTOR	COLOR
7X4A: without Auto Tracking System			V: VERTICAL	S: SMA; P: PINS	-X: WITHOUT RADOME
7X4T: with Auto Tracking System			R: RHCP L: LHVP	M: MCX; MM: MMCX N: N; NB: N-Bulkhead T: TNC; TB: TNC- Bulkhead	-1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVEDRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: TAN #: FS Z3446 or 33446, FED-STD-595

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS ± 1/64
 DECIMALS ± .010
 ANGLES ± 1°
 TOLERANCE 5M PER ANS Y14.5
 REMOVE ALL BURRS
 BREAK INTERNAL CORNERS .005 TO .015
 FILLETS R .005 TO R .020
 DIMENSIONS PER ASME Y14.5
 DATE ON A COMMON 8/24/05
 MACHINED SURFACES
 DO NOT SCALE DRAWING

OWNER: ANTCOM CORP. TORRANCE, CALIFORNIA
 (4.0-6.0) GHz C-BAND DIRECTIONAL DIPOLE ANTENNA ARRAY WITHOUT AUTO TRACK SYSTEM

APPROVED: S. HUYNH June-18-05
 DRAWN: [Signature]
 CHECKED: [Signature]
 DATE: June-18-05

SCALE 1/1 SHEET 1 OF 1



High Gain L, S, LS-Band Antenna Array, P/N: 7X4A-X-BANDV-X-XX-X, (1.4-2.2) GHz, (2.2-2.5) GHz, (2.4-2.5) GHz, or (1.4 to 3.4) GHz for Video/Data link Applications




Available in SMA, TNC, or N Connector and Different Colors

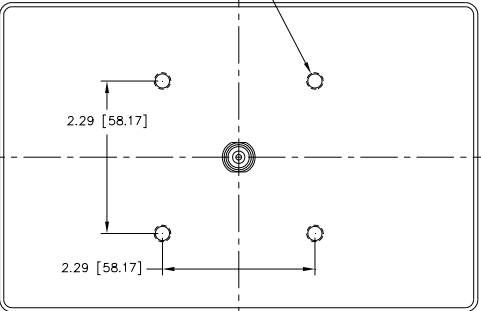
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**L-BAND
ANTENNA ARRAY**



7X4A-L-BANDV-A-XT-5

SPECIFICATIONS

ELECTRICAL:

L-BAND

FREQUENCY: (1400 - 2200, 2200 - 2500, 2400 - 2500, 1400 - 3400) MHz - (See below table for P/N)

PATTERN: DIRECTIONAL

POLARIZATION: VERTICAL

ANTENNA GAIN : L-Band: 6dB; S-Band: 12 dB

BEAM WIDTH (deg): S-Band: EL = 50deg, Az= 30 deg
L-Band: 45deg

VSWR: 2:1

OUTPUT IMPEDANCE: 50 ohms

POWER HANDLING: 100 watts

LNA OPTION:

LNA GAIN: 33 dB (P1dBout = +13 dBm)

LNA NOISE FIGURE: 2.2 dB

LNA VOLTAGE: (+2.5 to +24) Volts DC

LNA DRAWING CURRENT: < 30 mA

MECHANICAL:

SIZE: ANTENNA: (Width= 7.18in x Width= 4.64in x Thickness= 1.96in)
ANTENNA & TRACKING SYSTEM: 6.3in High x 7.7 Dia.

WEIGHT: 0.5 lb (227 grams), WITH AUTO TRACK: < 2.5 lbs (1.13 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED

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

CONNECTOR: TNC FEMALE
(OPTION: SMB, SMA, N, MCX, MMCX, BNC, OR CABLES)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 30,000 ft.

VIBRATION: > 20 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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	UNIT
8	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
					3
		2-038-N756-75	-	-	1

TRACKING OPTION	NUMBER OF ELEMENT	FREQUENCY BAND:	S/C-BAND POL:	LNA:	CONNECTOR:	COLOR:
7X4A: without Auto Tacking System		S: 2.4-2.5 GHz	V: VERTICAL	A: WITH LNA	S: SMA; P: PINS	X: WITHOUT RADOME
7X4T: with Auto Tacking System		L: 1.4-2.2 GHz	R: RHCP	P: WITHOUT LNA	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
		S1: 2.2-2.5 GHz	L: LHVP		N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
		LS: 1.4-3.4 GHz			T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
						-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
					X: CABLE LENGTH	-5: TAN #: FS 23446 or 33446, FED-STD-595

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

ANTCOM CORP. TORRANCE, CALIFORNIA

**HIGH GAIN L, S, LS-BAND
DIRECTIONAL DIPOLE ANTENNA ARRAY**

DRAWN: _____
ENGINEER: _____
APPROVED: S. HUYANH Mar-19-12
DATE: _____

SCALE: 1/1

SHEET 1 OF 1



High Gain L, S, LS-Band Horizontal/Vertical Antenna Array, P/N: 7X4A-8LS-BANDVH-XNN-X, (1.7-2.7) GHz for Video/Data Link Applications

Available in SMA, TNC, or N Connector and Different Colors



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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY: (1700-2700) MHz
 PATTERN: DIRECTIONAL
 POLARIZATION: VERTICAL and HORIZONTAL
 ANTENNA GAIN: 9dBil
 BEAM WIDTH (deg): Horizontal EL = 45deg, Az= 65 deg
 BEAM WIDTH (deg): Vertical EL = 45deg, Az= 65 deg
 VSWR: 2:1
 OUTPUT IMPEDANCE: 50 ohms
 POWER HANDLING: 50 watts

MECHANICAL:

SIZE: ANTENNA: (Width= 7.18in x Width= 4.64in x Thickness= 1.96in)
 WEIGHT: 0.5 lb (227 grams), WITH AUTO TRACK: < 2.5 lbs (1.13 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR:
N FEMALE
(OPTION: SMB, SMA, TNC, MCX, MMCX, BNC, OR CABLES)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 30,000 ft.
 VIBRATION: > 20 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

CONNECTOR:
N FEMALE
(OPTION: SMB, SMA, TNC, MCX, MMCX, BNC, OR CABLES)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 30,000 ft.
 VIBRATION: > 20 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

NUMBER OF ELEMENT	FREQUENCY BAND:	S/C-BAND POL.	LNA:	CONNECTOR:	COLOR:
	S: 2.4-2.5 GHz	V: VERTICAL	A: WITH LNA	S: SMA; P: PINS	-X: WITHOUT RADOME
	L: 1.4-2.2 GHz	H: HORIZONTAL	P: WITHOUT	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
	S: 2.2-2.5 GHz	R: RHCP	LNA	N: N; NR: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	LS: 1.4-3.4 GHz	L: LHVP		T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
					-4: LUSTERLESS BLACK #37036 PER FED-STD-595B
				X: CABLE LENGTH	-5: TAN #; FS 23446 or 33446; FED-STD-595

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REF
8	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
					3
					1

7X4A-8LS-BANDVH-XNN-X

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTIONS DECIMALS ANGLES	± 1/64 ± .005 ± .1°		
TOLERANCE DIM PER ANSI Y14.5	DRWN Phil Tran April-24-12	HIGH GAIN L, S, LS-BAND HORIZONTAL & VERTICAL DIRECTIONAL DIPOLE ANTENNA ARRAY	
REMOVE ALL BURRS FROM INTERNAL SIZES .005 TO .015 FILE TO .005 TO .010 SCREW THREADS PER MIL-STD-8839 DAPS ON A COMMON ± .0005	DESIGNED S. HUYNH April-24-12		
MACHINED SURFACES	APPROVED S. HUYNH April-24-12	REV D	REV 3CVE1
DO NOT SCALE DRAWING	CAD FILE NO	SCALE 1/1	SHEET 1 OF 1



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P/N: 4X4-2.5-5.4XX-P-XSS-1
Dual (2.4/5.4)GHz Wi-Fi
RHCP, LHCP, or Linear Directional Antenna
4.442in Sq. x 0.847in Thick



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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY: S/C-Band Wi-Fi: 2.5/5.4 GHz
 PATTERN: DIRECTIONAL
 POLARIZATION: CIRCULAR or LINEAR (See P/N Below)
 ANTENNA GAIN: 8 dBi
 BEAM WIDTH: (40-50) deg

VSWR: 2:1
 OUTPUT IMPEDANCE: 50 ohms
 POWER HANDLING: 50 watts

MECHANICAL:

SIZE: 4.442in [113mm] Square x 0.847in [22mm] Thick
 WEIGHT: 8 oz (226 grams)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541

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

CONNECTOR: SMA FEMALE
 (OPTION: SMB, TNC, MCX, MMCX, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 30,000 ft.
 VIBRATION: > 20 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

NUMBER OF ELEMENT	FREQUENCY BAND:	S/C-BAND POL.	LNA:	CONNECTOR:	COLOR:
	2.5-5.4; (2.5/5.4) GHz	RR: RHCP/RHCP	A: WITH LNA	S: SMA	-X: WITHOUT RADOME
		LL: LHCP/LHCP	P: WITHOUT	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
		RL: RHCP/LHCP	LNA	N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #38330 PER FED-STD-595B
		LR: LHCP/RHCP		T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		VV: Vertical/Vertical			-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
					-5: TAN #; FS 23446 or 33446, FED-STD-595

4X4-2.5-5.4XX-P-XSS-1

Mounting: 4x2.012 [51.10] 6-32 Thread x0.250in Deep

CONNECTOR LOCATION:
 X: ON BACK
 N: ON SIDE

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY	DESCRIPTION	PART NO.	MATERIAL	FINISH	REF. NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. TORRANCE CALIFORNIA	
FRACTIONS: ± 1/64	DECIMALS: .001	DIRECTIONAL 2.5/5.4 GHz WI-FI ANTENNA ARRAY	
ANGLES: ± 1°	ANGLES: .001		
TOLERANCE SHIP PER ANSI Y14.5	REMOVE ALL BURRS		
BREAK EXTERNAL EDGES .005 TO .015	FILLET R .005 TO R .010		
SOFTEN THESE EDGES PER MIL-STD-883B	DATE ON A COMMON E 27-005	DESIGNED BY	DESIGNED BY
MACHINED SURFACES	DO NOT SCALE DRAWING	APPROVED	DATE
		S. HUYNH	May-20-12
		DWG FILE NO	SCALE 1/1
		D	3CVE1
			4X4-2.5-5.4XX-P-XSS-1
			SHEET 1 OF 1



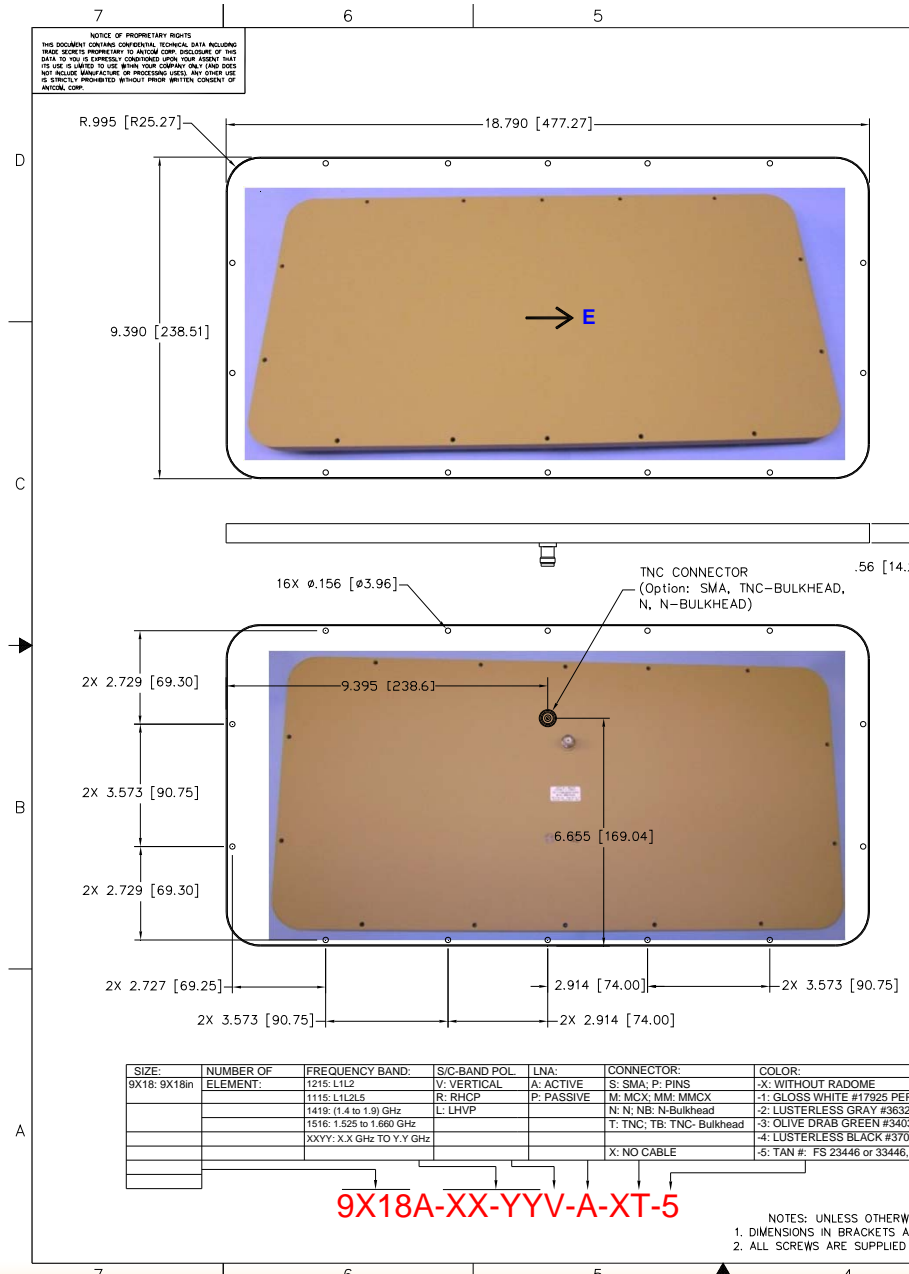
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High Gain L-BAND Antenna, P/N: 9X18A-XX-YYX-A-XX-X



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SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:
FREQUENCY: L-BAND
 (X.XX - X.XX) GHz - See Below Table for P/N
PATTERN: DIRECTIONAL
POLARIZATION: RHCP, LHCP, or LINEAR - See Below Table for P/N
ANTENNA GAIN: 13 dB
BEAM WIDTH (deg): 20 X 40
VSWR: 2.0:1
OUTPUT IMPEDANCE: 50 ohms
POWER HANDLING: 100 watts
DC GROUNDING: YES

LNA OPTION:
LNA GAIN: 33 dB (P1dBout = +13 dBm)
LNA NOISE FIGURE: 2.2 dB
LNA VOLTAGE: (+2.5 to +24) Volts DC
LNA DRAWING CURRENT: < 30 mA

MECHANICAL:
SIZE: 9.39in x 18.79in x 0.56in
WEIGHT: 2.33 lb (1.06 Kg)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR: TNC FEMALE (OPTION: SMB, SMA, N, MCX, MMCX OR BNC)

ENVIRONMENTAL:
TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 30,000 ft.
VIBRATION: > 20 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

SIZE:	NUMBER OF ELEMENTS:	FREQUENCY BAND:	S/C-BAND POL.	LNA:	CONNECTOR:	COLOR:
9X18: 9X18in	1215: L1L2	1115: L1L2L5	V: VERTICAL	A: ACTIVE	S: SMA; P: PINS	X: WITHOUT RADOME
	1419: (1.4 to 1.9) GHz	L: LHVP	R: RHCP	P: PASSIVE	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
	1516: 1.525 to 1.660 GHz		L: LHVP		N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	XXYY: XX GHz TO Y.Y GHz				T: TNC; TB: TNC- Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
					X: NO CABLE	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
						-5: TAN #; FS 23446 or 33446, FED-STD-595

9X18A-XX-YYV-A-XT-5

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

QUANTITY	DESCRIPTION	PART NO	FINISH	ITEM NO.
1	OPTIONAL XFL RF CABLE	SMA-M-LRM200-XFL-SMB-M	-	3
1	1/3-20 ANTENNA MOUNT	HGX-PMT03	-	1

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
DRAWINGS ARE IN INCHES	TORRANCE CALIFORNIA
TOLERANCES ARE:	
FRACTIONS: DECIMALS: ANGLES:	
± 1/64 ± .005 ± .010	
REMOVE ALL BURRS	
BREAK EXTERNAL EDGES .005 TO .015	
FILLET R .005 TO R .010	
SCREW HEADS PER MIL-S-8879	
BASES ON A COMMON 1/2" DIA	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

DATE	CHKD	DRG NO	DRG NO	REV
Mar-12-12	S. HUYNH	3CVE1	9X18A-XX-YYV-A-XT-5	-

SCALE 1/1 SHEET 1 OF 1



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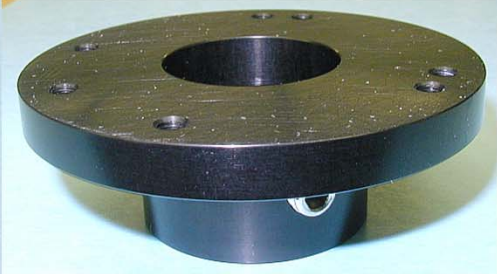





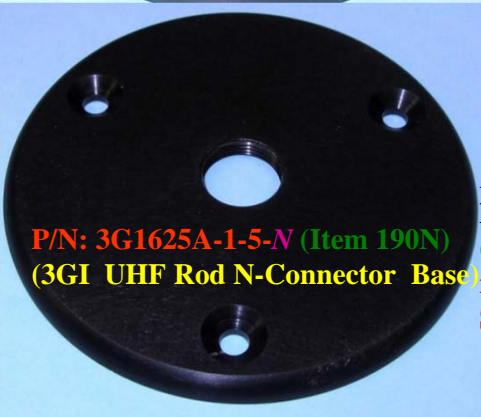

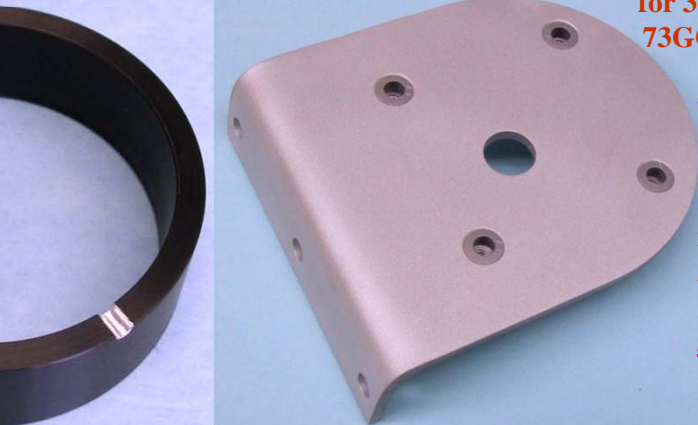


Antenna Mounts, Adapters, Covers
Ground Planes, Gaskets,
O-Rings, & Sealing

Antenna Mounts (Pipe Mounts/Spacer, 1 of 3)



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 <p>1\"-14 Threaded Pipe Mount, 3.25\" Dia. x 0.5\" Thick, P/N: MTR-1-14 (Item 480) for 3G, 53G, 73G, S3IR, S53 Antenna Series</p>	 <p style="text-align: center;">1.25in Dia.</p>  <p>1.2\" Dia. Pipe MTR-1-1.25 Rev D (Item 479) for 3G, 53G, 73G, S3IR, S53 Antenna Series,</p>	 <p style="text-align: center;">1.075in Dia.</p>  <p>1\" Dia. Pipe P/N: MTR-1-1 Rev D (Item 478) for 3G, 53G, 73G, S3IR, S53 Antenna Series,</p>	 <p style="text-align: center;">5/8-11 Thread</p>  <p>5/8-11 Thread, Survey Mount, 3.25\" Dia. x 0.72\" High, P/N: MTR-3 Rev B (Item 484a) for 3GO, 5GO, 53GO, 73GO Antenna Series</p>
 <p>P/N: 3G1625A-1-5-N (Item 190N) (3G1 UHF Rod N-Connector Base)</p>	 <p>Antenna Spacer Ring, P/N: 53-XXXXYYYP-20N-4A-B (Item 480G), for 3G, 53G, 73G, S3IR, S53 Antenna Series</p>	 <p>3G Antenna Bracket Mount, P/N: 13625076 (Item 482r) for 3G, S3IR Antenna Series, <u>306 Passivated</u> <u>Stainless Steel</u></p>	



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Antenna Mounts (Pipe Mounts, 2 of 3)



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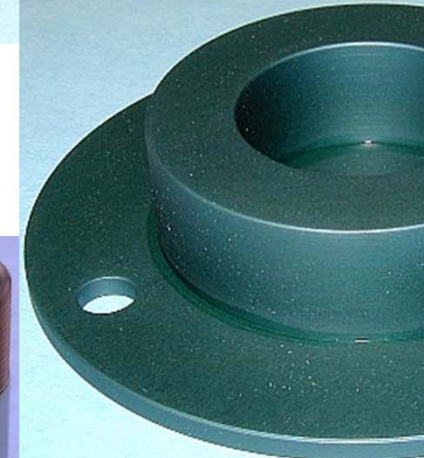
<1.3in Dia. Pipe Mount,
P/N: MTR-2 Rev B
(Item 482)
(for Both Vertical/
Horizontal Pipe)
for 3G, 4G, 5G, 3G,
73G, S3IR, S4IR,
S53, S5G
Antenna Series



1" Pipe Mount,
P/N: 71G-MOUNT (Item 478a)
for 3D, 51G, 73G, S51
Antenna Series



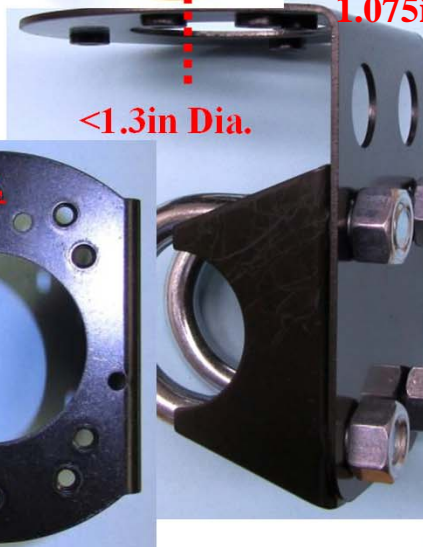
1.075in Dia.



Panel
Antenna Mount
(1/4-20 Thread)
P/N: HGX-PMT04



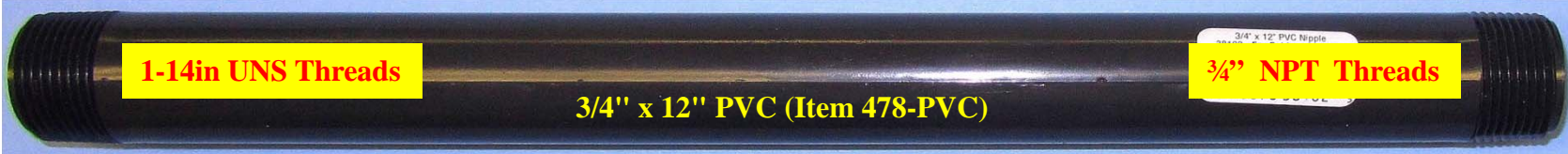
P/N: MTR-2-Mod2 Rev B,
(Item 482-mod2)
Side bottom Connector
3G Antenna



<1.3in Dia.



P/N: SS4365
(Item 478s)
1in-14 Antenna
Mount.



1-14in UNS Threads

3/4" x 12" PVC (Item 478-PVC)

3/4" NPT Threads

Antenna Mounts (Magnetic Mounts 3 of 3)



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5/8-11 Thread



**Survey Mount,
P/N: MTR-3 Rev A
(Item 484a)**

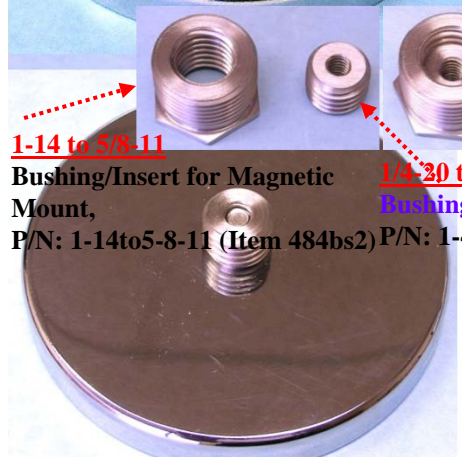


1"-14 Thread

**1in-14 Thread
Magnetic Standoff Antenna Mount,
P/N: MTR-3M-1-14 (Item 484c14)**



**1"-14 Threaded Pipe Mount,
3.25" Dia. x 0.5" Thick,
P/N: MTR-1-14 (Item 480)
for 3G, 53G, 73G, S3IR,
S53 Antenna Series**



**1-14 to 5/8-11
Bushing/Insert for Magnetic
Mount,
P/N: 1-14to5-8-11 (Item 484bs2)**



**1/4-20 to 5/8-11
Bushing/Insert for Magnetic Mount,
P/N: 1-4-20to5-8-11 (Item 484bs)**

**Low Profile 5/8-11 Thread
Magnetic Standoff Antenna Mount,
With Optional 1-14 Thread Bushing Adapter,
P/N: MTR-3M-S (Item 484cs)**



**Magnetic Mount,
P/N: MTR-5 (Item 486)
for 3G, 4G, 5G, 53G, 73G, S3IR,
S4IR, S53, S5G Antenna Series**



**Magnetic Antenna Mount with 10ft 191 N-Male Cable,
P/N: HMA3-NMA10 (Item 484H1)
Diameter 3.5" (88.9 mm), Height 1.5" (38 mm),
Weight .70 lbs. (.31 kg)
Mount Connector N-Male**




**1in-14 & 5/8-11 Thread Magnetic Mount,
P/N: MTR-3M-S2 (Item 484c2)**

1/5-11 and 1-14 Thread Antenna Mount Adapters



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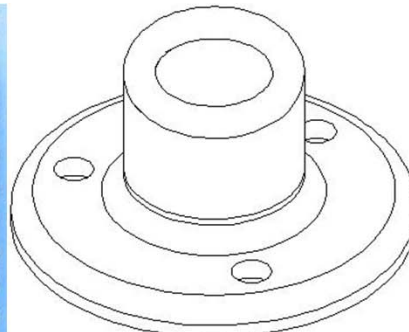
 <p>5/8-11 Thread</p> <p>5/8-11 Magnetic Standoff, P/N: 5/8-11-Standoff (Item 484b)</p>	 <p>1"-14 Thread</p> <p>1in-14 Thread Magnetic Standoff, P/N: 1-14-Standoff (Item 484b14)</p>	 <p>5/8-11 Thread</p>	 <p>1"-14 Thread</p>				
<p>1in-14 to 5/8-11 Thread Magnetic Standoff, P/N: 1-14-0.625-11-Standoff (Item 484b2)</p>		 <p>1-14 to 5/8-11 Bushing/Insert for Magnetic Mount, P/N: 1-14to5-8-11 (Item 484bs2),</p> <p>1/4-20 to 5/8-11 Bushing/Insert for Magnetic Mount, P/N: 1-4-20to5-8-11 (Item 484bs),</p>		<p>5/8-11 Thread</p> <p>5/8-11 Male to Female Adapter, P/N: 5/8-11-A</p>	<p>1"-14 Thread</p> <p>1-14 Male to Female Adapter, P/N: 1-14-A</p>	<p>5/8-11 Thread</p> <p>5/8-11 to 1-14 Male to Female Adapter, P/N: 5/8-11-1-14</p>	<p>1"-14 Thread</p> <p>1-14 to 5/8-11 Male to Female Adapter, P/N: 1-14-5/8-11</p>
 <p>5/8-11 Thread</p> <p>5/8-11 Mount to 10-32 base Antenna Mount, P/N: MTR-3B (Item 484b3),</p>	 <p>1"-14 Thread</p> <p>1in-14 Mount to 10-32 base Antenna Mount, P/N: MTR-3B2 (Item 484b32),</p>	<p>1/4-20 for all Center Thread</p>					



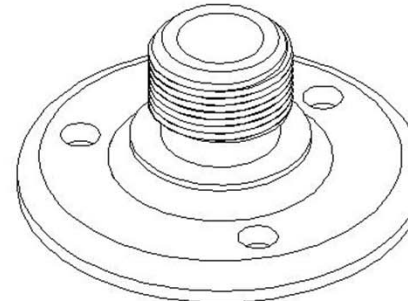
5/8-27 UNS-2A Female Threads Mounting Flange, P/N: AD-11BE (Item 490-11BE),
 5/8-27 UNS-2A Male Threads Mounting Flange, P/N: AD-12BE (Item 490-12BE),
 Spring with 5/8-27 UNS-2A Male/Female Insert, with Base, Zinc Black Finish, P/N: Spring_Adapter5/8-27-2 (Item 490sp27-2B)
 Spring with 5/8-27 UNS-2A Male/Female Insert, Zinc Black Finish, P/N: Spring_Adapter5/8-27-2 (Item 490sp27-2)
 ISO 9001:2008/FAA Approved Facility



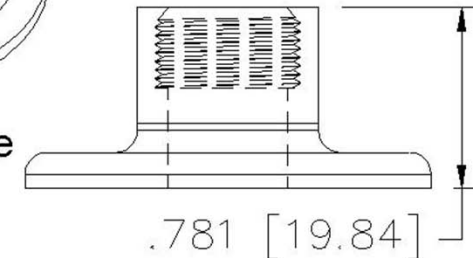
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5/8-27 Female Flange
 Mount Option
 P/N: AD-11BE



5/8-27 Male Flange
 Mount Option
 P/N: AD-12BE

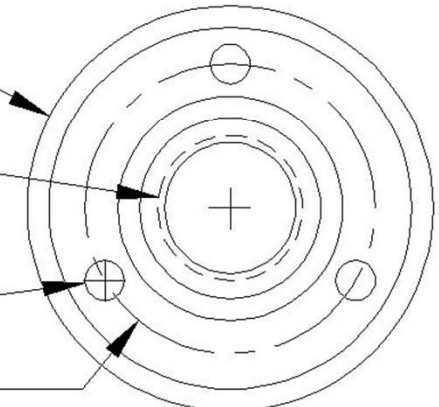


$\phi 1.750$ [$\phi 44.45$]

5/8-27 UNS-2A
 Threads

3x $\phi 0.171$ [$\phi 4.34$] Thru.

$\phi 1.250$ [$\phi 31.75$] B.C.



Spring with
 5/8-27 UNS-2A
 Male/Female
 Insert, with Base
 Zinc Black Finish
 P/N: Spring_Adapter5/8-27-2B
 (Item 490sp27-2b)

Spring with
 5/8-27 UNS-2A
 Male/Female
 Insert,
 Zinc Black Finish
 P/N: Spring_Adapter5/8-27-2
 (Item 490sp27-2)



P/N: AD-11BE
 (Item 490-11BE)



P/N: AD-12BE
 (Item 490-12BE)



Ruggedized, Light Weight, Low Profile Gooseneck Mounting Adapter,



P/N: Gooseneck-Xin-X

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<p style="font-size: small;">NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.</p>	<p>P/N: Gooseneck-3in- Connector Type P/N: Gooseneck-4in- Connector Type P/N: Gooseneck-6in- Connector Type P/N: Gooseneck-9in- Connector Type P/N: Gooseneck-12in-Connector Type</p> <p>Connector Type: SF-SM (SMA Female to SMA Male) TF-TM (TNC Female to TNC Male) NF-NM (N Female to N Male) BF-BM (BNC Female to BNC Male)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>ZONE</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS				ZONE	REV	DESCRIPTION	DATE	APPROVED																
REVISIONS																											
ZONE	REV	DESCRIPTION	DATE	APPROVED																							

4

1		1
QTY	PARTS LIST	ITEM NO
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. FRACTIONS TOLERANCES ARE: DECIMALS ANGLES ± 1/64 .XX ± .015 ± 1° .XXX ± .005		
TOLERANCE SYM PER ANSI Y14.5		
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON 6.29.005		
MACHINED SURFACES 125/		DO NOT SCALE DRAWING
DRAWN		CHECKED
ENGINEER		APPROVED
S. HUYNH D8c-02-11		SCALE 1/1 WT MAX
C 3CVE1		SHEET 1 OF 1
DRAWING NO Gooseneck-Xin-X-X		REV

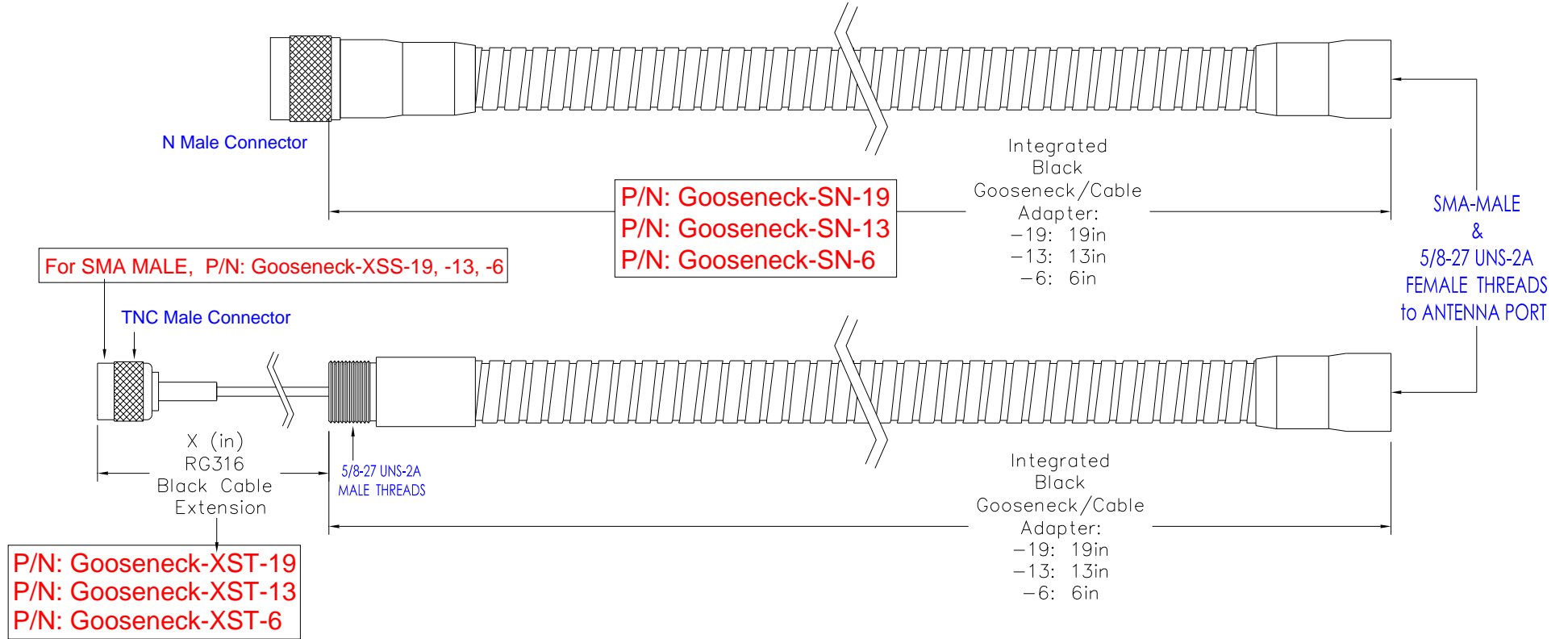


5/8-27 Thread-N-Connector Gooseneck Mounting, P/N: Gooseneck-SN-19/13/9 (Item 490GN19/13/9),
 5/8-27 Thread-T-Connector Gooseneck Mounting, P/N: Gooseneck-XST-19/13/9 (Item 490GTX19/13/9),
 5/8-27 Thread-S-Connector Gooseneck Mounting, P/N: Gooseneck-XSS-19/13/9 (Item 490GSX19/13/9)



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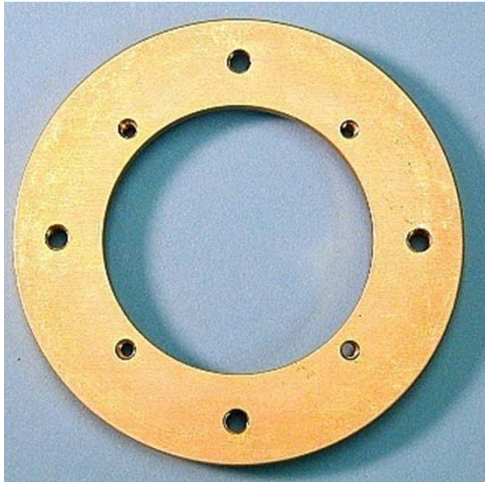


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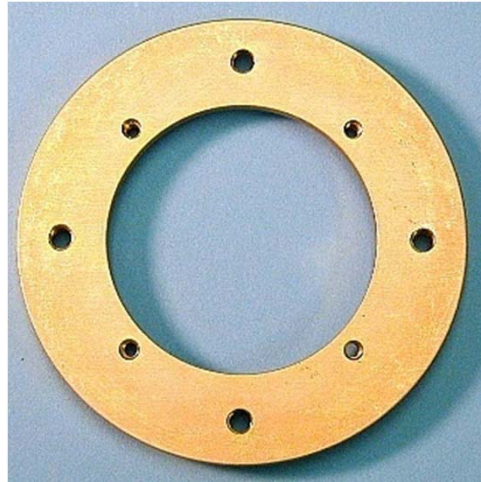
Curved Surface Antenna Mounting Adapters



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Curved Surface Mounting Adapter,
3.34" Dia. on 4" Radius Surface
and Other Radius,
P/N: 3G1215P-AS-P-012-B2
(Item 496),
For 3G, S3 , 53G, and 73G Antenna
Series,



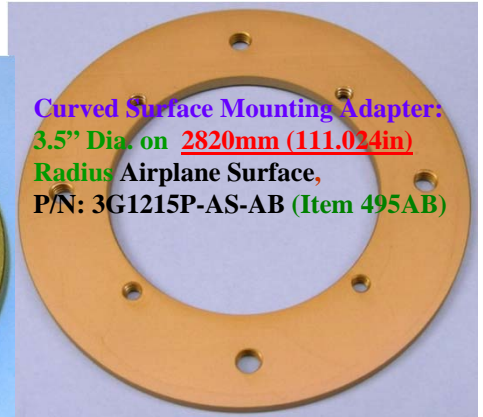
Curved Surface Mounting Adapter,
3.5" Dia. on 7.5" Radius Surface
P/N: 3G1215P-AS-E-012-B2
(Item 495),
For 3G, S3 , 53G, and 73G Antenna Series



Curved Surface Mounting Adapter:
3.34" Dia. on 4" Radius Surface
P/N: 3G1215P-AS-P-012-B2 Rev A
(Item 496a), 45deg Rotation



Curved Surface Mounting Adapter:
2.6" Dia. on X" Radius Surface
For 2G, and S2 Antenna Series
P/N: 2G-Adapter-3.5N
(Item 509c, 3.5" Radius Surface),
P/N: 2G-Adapter-5
(Item 509d, 5" Radius Surface)



Curved Surface Mounting Adapter:
3.5" Dia. on 2820mm (111.024in)
Radius Airplane Surface,
P/N: 3G1215P-AS-AB (Item 495AB)





<1.3in Dia. Pipe Mount, P/N: MTR-2 Rev D, (Item 482-316) & MTR-2-1a Rev D, (Item 483-316)

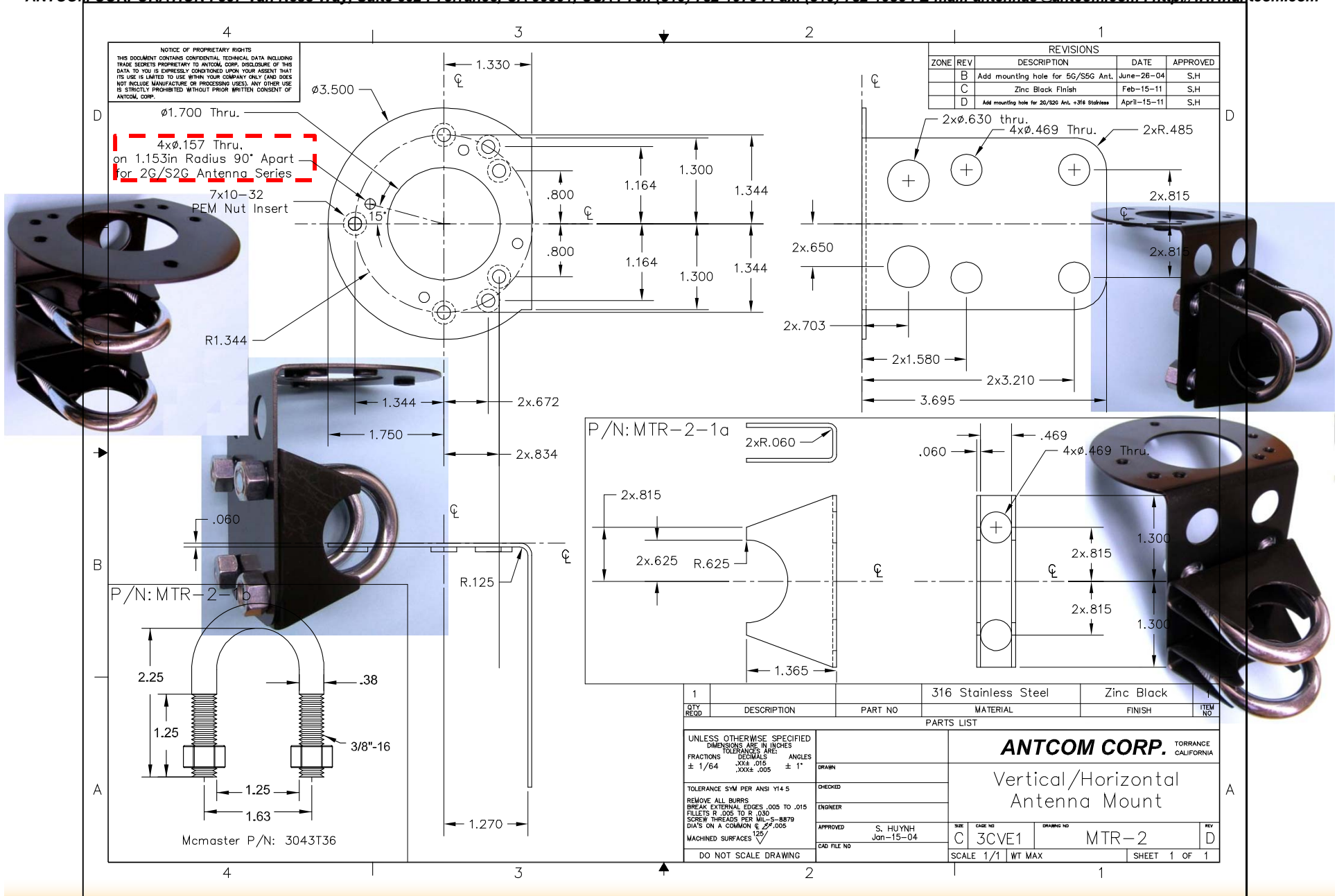
(for Both Vertical/Horizontal <1.3in Dia. Pipe) for

**2G, 3G, 4G, 5G, 53G, 73G, S2, S3IR, S4IR, S53, S5G Antenna Series,
316 Passivated Stainless Steel, Zinc Black Finish for Better Corrosion Resistant**



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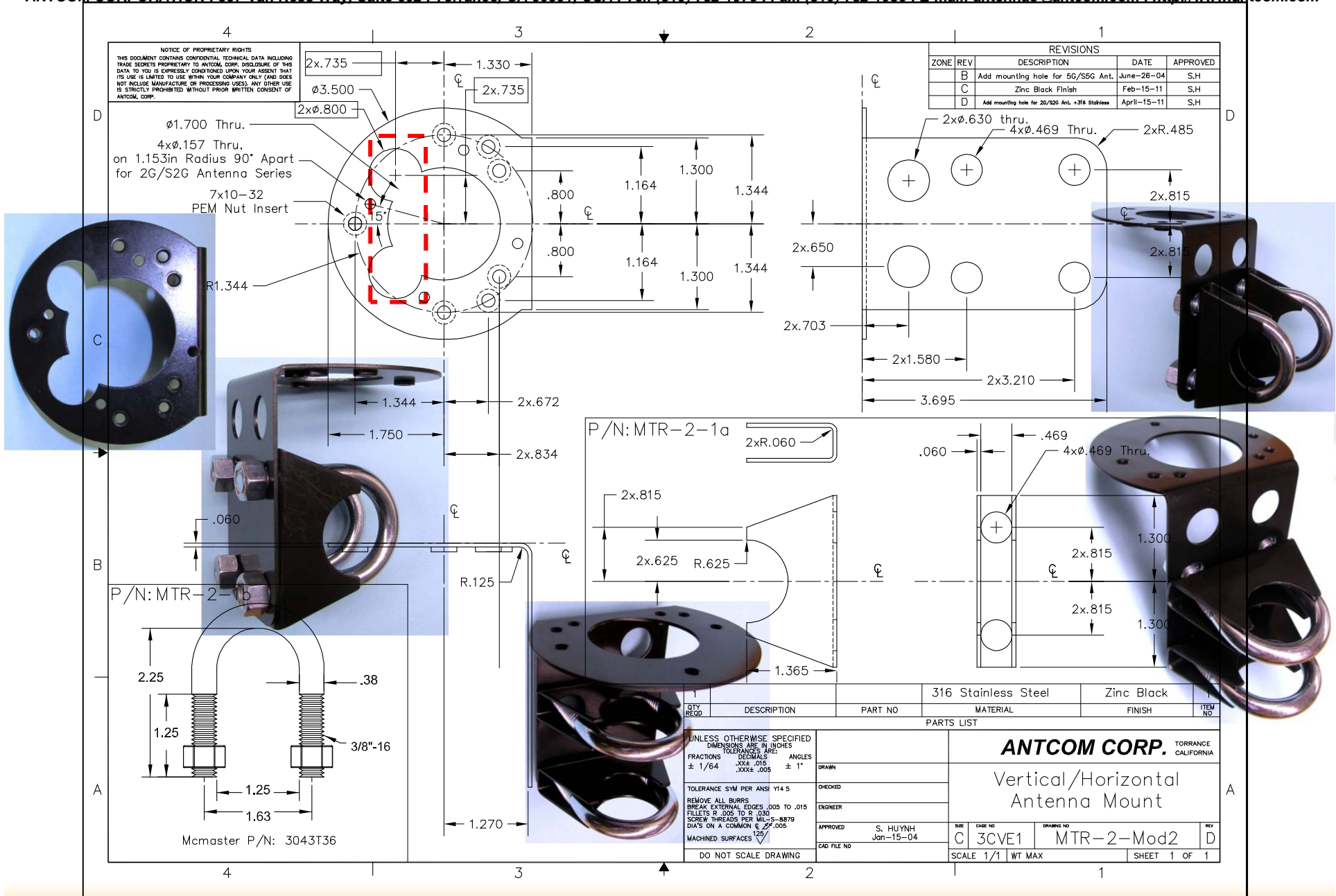


<1.3in Dia. Pipe Mount, P/N: MTR-2-Mod2 Rev D, (Item 482-mod2) & MTR-2-1a Rev D, (Item 483-316)
 (for Both Vertical/Horizontal <1.3in Dia. Pipe) for **Side bottom Connector 3G Antenna and**
2G, 3G, 4G, 5G, 53G, 73G, S2, S3IR, S4IR, S53, S5G Antenna Series,
316 Passivated Stainless Steel, Zinc Black Finish for Better Corrosion Resistant



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Amplifier, Power Divider/Combiner & Filters/Diplexer



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L-Band (5-3000) MHz Low Noise Amplifier,

P/N: 2GXXXXAMPXX-XS-3MM



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7 6 5 4 3 2 1

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1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

2x.22 [5.71] ϕ 4X ϕ .11 [ϕ 2.79] Thru.

2.00 [50.80] SQ. 4X.83 [21.05]

P/N:-1X

P/N:-14X

P/N:-3X

P/N:-324X

.37 [9.33] .19 [4.75]

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		For DC Connector Options	July-25-06	S.H

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(5 - 500) MHz	(800 - 3000) MHz	L1 or L1/L2 GPS Band (with Filters)	(2.400- 2.500) GHz (with Filter)
VSWR:	< 2:1	< 2:1	< 2:1	< 2:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
LNA GAIN:	(33) dB	(37, 20) dB	33 dB	35 dB
LNA NOISE FIGURE:	1.8 dB	1.8 dB	3.0 dB	2.8 dB
LNA P1dB Out:	+8 dBm	+11 dBm	+11 dBm	+11 dBm
LNA DC POWER:	+(15 to 18)V, < 35 mA		(+2.8 to +24) V, < 38 mA	
REJECTION @ (-50/+50) MHz			(-41/-59) dB or -40 dB (REJ. @1616 MHz):	
@ (-100/+100) MHz			< -65 dB	-57 dB
POWER HANDLING:	1 Watt CW			

MECHANICAL:

SIZE: LENGTH=2.00 in.[50.80 mm], WIDTH=2.00 in.[50.80 mm], HEIGHT= 0.37 in.[9.33 mm]

WEIGHT: 4.00 oz. (.113 Kg)

FINISH: IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY

CONNECTOR: SMA FEMALE (OPTIONAL: MCX, MMCX, SMA-M, TNC, TNC-M, OR N)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: >30 G's

LEAKAGE: HERMETICALLY SEALED

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

FREQ. BAND:	LNA GAIN:	DC OPTION:
1030: (1 to 3) GHz	20: 20 dB GAIN 37: 37 dB GAIN	1: DC BIAS FROM RF OUTPUT PORT P1 ONLY 2: DC BIAS FROM RF OUTPUT PORT P1 & PASS IT TO RF INPUT PORT 2 (FOR MULTIPLE INLINE AMP.) 3: EXTERNAL DC INPUT @ PORT 3 ONLY
15: L1 Only (with Filter)	33: 33 dB GAIN	14: DC BIAS FROM RF OUTPUT PORT P1 & PASS REG. 3V OUTPUT TO PORT 4
1215: L1/L2 Only (with Filters)	35: 35 dB GAIN	32: EXTERNAL DC INPUT @ PORT 3 & PASS IT TO RF INPUT PORT 2 (FOR MULTIPLE INLINE AMP.)
2425: 2.4-2.5 Only (with Filters)	33: 33 dB GAIN	324: EXTERNAL DC INPUT @ PORT 3 & PASS IT TO RF INPUT PORT 2 & REG. 3V OUTPUT TO PORT 4
5500: (5 to 500) MHz		

P/N: 2G1215AMP33-XM-324M

CABLE'S LENGTH:	INPUT/OUTPUT CONNECTOR	Ext. DC CONNECTOR
X: NO CABLE	S: SMA, SM: SMA-M,	S: SMA, SM: SMA-M,
M: WITH MAG. MOUNT	M: MCX, MM: MMCX	M: MCX, MM: MMCX
#: CABLE LENGTH (IN)	T: TNC, TM: TNC-M	T: TNC, TM: TNC-M, N: N
R: RIGHT ANGLED CON.	N: N	NO CON. FOR DC OPTION 1 AND 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCE 31M PER ANSI Y14.5 REPROF. ALL SURFACES BEING CRITICAL EDGES .006 TO .016 SOLDER THICKNESS FOR MIL-S-8879 51% ON A COARSE 0.25/.006 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING (0.005-3) GHz, UHF, GPS, or S-BAND AMPLIFIER

DRIVER: [] CHECKED: []

DESIGNER: [] APPROVED: S. HUYNH Oct-02-02

DATE: 01/30/11

SCALE: 1/1

SHEET 1 OF 1



2-Way Power Divider/Combiner for Multiple Channels,

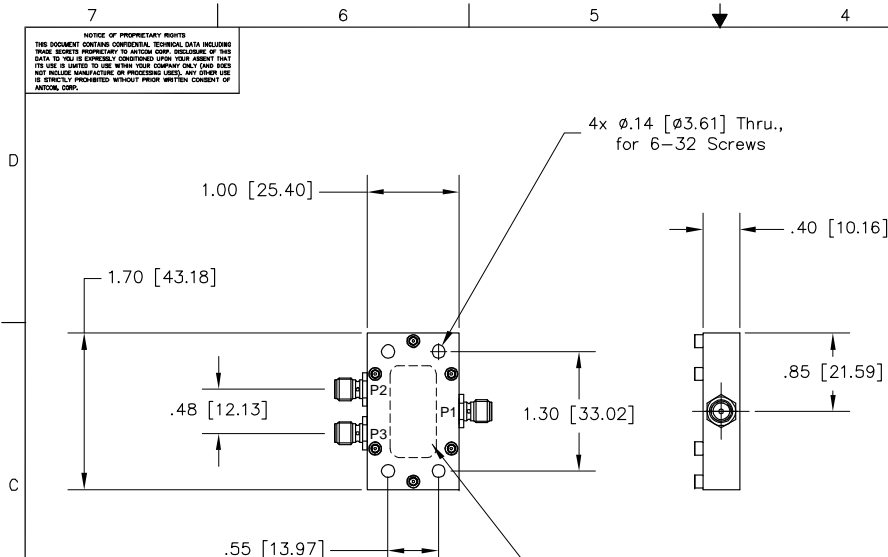
P/N: 2G1215S-XS2-X

3, 4, 5, 6 Ways are also Available

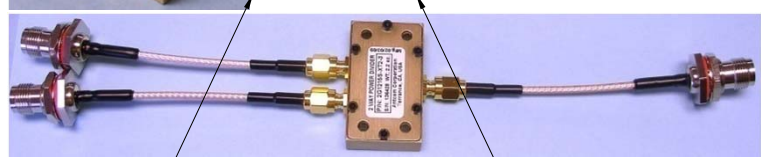


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NAMEPLATE APPROXIMATE LOCATION



SMA FEMALE CONNECTORS (TNC, N, OR CABLE IS OPTIONAL) DC ENABLE/DISABLE IS OPTIONAL

SMA FEMALE CONNECTOR (TNC, N, OR CABLE IS OPTIONAL) DC ENABLE/DISABLE IS OPTIONAL



FREQ. BAND:	LNA GAIN:	DC OPTION:
1215: (0.3-3) GHz	13: 13 dB GAIN	1: P1, P2, P3 DC ALL DISABLE
	20: 20 dB GAIN	2: P1, P2, P3 DC ALL ENABLE
	33: 33 dB GAIN	3: P1, P2 DC ENABLE; P3 DC DISABLE

P/N: 2G1215S-XS2-2

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	CONNECTOR:
X: NO CABLE	T: TNC (Optional Bulkhead)
M: WITH MAG. MOUNT	S: SMA
F: CABLE LENGTH (IN)	N: N (Optional Bulkhead)
R: RIGHT ANGLE CON.	M: MCX

SPECIFICATIONS

ELECTRICAL:

	(0.250-0.500) GHz	(0.5-1.0) GHz	(1.0-3.0) GHz
FREQUENCY:			
VSWR:	< (2.0-3.5):1	< 2.0:1	< 1.5:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
INSERTION LOSS (dB):	(0.3 to 0.8)	0.4	0.3
AMPLITUDE BALANCE (dB):	+/-0.2	+/-0.2	+/-0.2
PHASE BALANCE (Deg.):	+/-1.0	+/-1.0	+/-1.0
POWER HANDLING:	100 Watt CW		

MECHANICAL:

SIZE: LENGTH=1.00 in. [25.40 mm], WIDTH=1.70 in. [43.18 mm]
HEIGHT 0.40 in. [10.16 mm]

WEIGHT: < 3.00 oz. (85.0 g)

FINISH: BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
UV, ABRASION, AND SKYDROL RESISTANCE

CONNECTOR: SMA FEMALE
(OPTIONAL: TNC, OR N)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

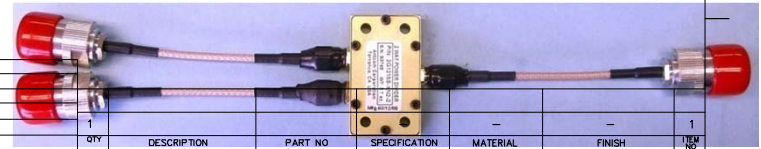
ALTITUDE: 70,000 ft.

VIBRATION: >30 G's

LEAKAGE: HERMETICALLY SEALED

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



QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES ARE ± 1/64 DECIMALS ± .015 ANGLES ± 1°

TOLERANCE 51M PER ANSI Y14.5

REPROF. ALL RIGHTS RESERVED. EXCEPT WHERE SHOWN OTHERWISE, DIMENSIONS ARE IN INCHES. DRAWN BY S. HUYNH, Feb-09-04

APPROVED BY S. HUYNH, Feb-09-04

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

2-WAY, IN PHASE with DC ENABLE/DISABLE POWER DIVIDER/COMBINER

REV D 3CVE1 2G1215S-XS2-X

SCALE 1/1 SHEET 1 OF 1



ISO 9001:2008/FAA Approved Facility

2-Way Power Divider/Combiner for Multiple Channels,

P/N: 2G1215S-XT2-X

3, 4, 5, 6 Ways are also Available



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SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

ELECTRICAL:

FREQUENCY:	(0.200-0.500) GHz	(0.5-1.0) GHz	(1.0-3.0) GHz	(3.0-5.9) GHz
VSWR:	< (2.0-3.5):1	< 2.0:1	< 1.5:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
INSERTION LOSS (dB):	(0.3 to 0.8)	0.4	0.3	1.5
AMPLITUDE BALANCE (dB):	+/-0.2	+/-0.2	+/-0.3	+/-1
PHASE BALANCE (Deg.):	+/-1.0	+/-2.0	+/-5.0	+/-5.0
POWER HANDLING:	100 Watt CW			

MECHANICAL:

SIZE: LENGTH=2.047in.[52mm], WIDTH=1in. [25.4mm]
HEIGHT 0.825in. [20.96mm]

WEIGHT: < 3 oz. (85.0 g)

FINISH: BASE IRIDITE PER MIL-C-5541

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
UV, ABRASION, AND SKYDROL RESISTANCE

CONNECTOR: TNC FEMALE
(OPTIONAL: SMA, TNC, N, BNC, MCX, MMCX, F)

ENVIRONMENTAL:

TEMPERATURE: -90 °F TO +257 °F [-67 °C TO +125 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

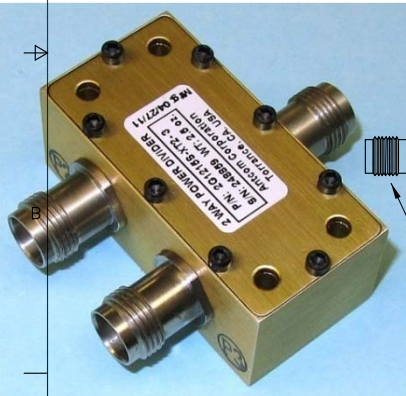
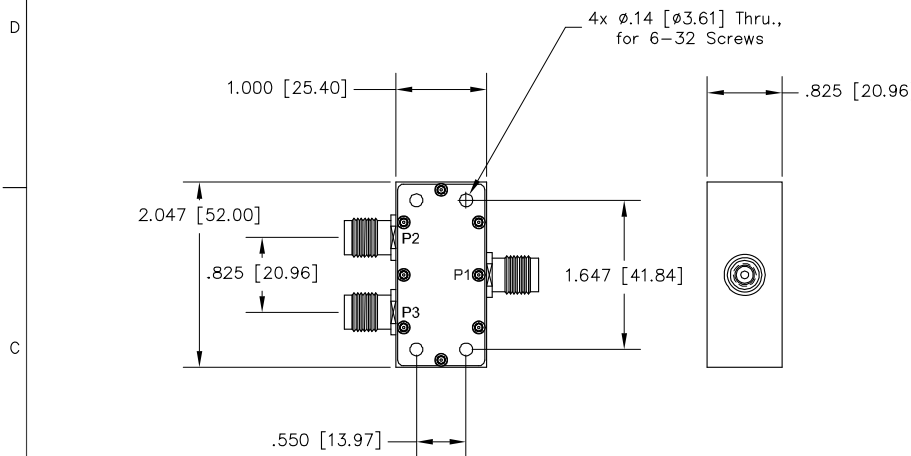
ALTITUDE: 70,000 ft.

VIBRATION: >30 G's

LEAKAGE: HERMETICALLY SEALED

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



TNC FEMALE CONNECTORS
OPTION: SMA, BNC, N, MCX, MMCX
DC ENABLE/DISABLE IS OPTIONAL

FREQ. BAND:	LNA GAIN:	DC OPTION:
1215: (0.2-5) GHz	13: 13 dB GAIN 20: 20 dB GAIN 33: 33 dB GAIN	1: P1/P2/P3 DC ALL BLOCKED 2: P1/P2/P3 DC ALL ENABLED 3: P1/P2 DC ENABLE; P3 DC BLOCKED 4: P1 DC ENABLE; P2/P3 DC BLOCKED 5: P1 DC BLOCKED; P2/P3 DC ENABLED

P/N: 2G1215S-XT2-4

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE LENGTH:	P1/P2/P3 Female Connector:	DC Bias Female Connector:
X: NO CABLE	S: SMA; B: BNC; T: TNC	S: SMA; B: BNC; T: TNC
M: WITH MAG. MOUNT	N: N; M: MCX; MM: MMCX	N: N; M: MCX; MM: MMCX
R: CABLE LENGTH (IN)	F: F; SB: SMB; SC: SMC	F: F; SB: SMB; SC: SMC
R: RIGHT ANGLE CON.		

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .015 ± 1° TOLERANCE SURF PER ANSI Y14.5 FINISH ALL SURFES REMOVE ALL BURRS BLEND EXTERNAL EDGES .008 TO .015 HOLD SURFES TO 125 SLOPE THREADS PER MIL-S-8879 DAYS ON A CORNER 5 OR 600 MACHINED SURFACES ✓ DO NOT SCALE DRAWING	ANTCOM CORP. TORRANCE, CALIFORNIA 2, 4-WAY, IN PHASE with DC INPUT POWER DIVIDER/COMBINER

APPROVED	DATE	SCALE	SHEET
S. HUNTER MAY-03-11		1/1	1 OF 1



2-Way Power Divider/Combiner with DC Input for Multiple Channels

P/N: 2G1215S-XTS2-X



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4x ϕ .14 [3.61] Thru.,
for 6-32 Screws

1.000 [25.40]

2.047 [52.00]

.825 [20.96]

1.647 [41.84]

.550 [13.97]

.825 [20.96]

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(0.200-0.500) GHz	(0.5-1.0) GHz	(1.0-3.0) GHz	(3.0-5.9) GHz
VSWR:	< (2.0-3.5):1	< 2.0:1	< 1.5:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
INSERTION LOSS (dB):	(0.3 to 0.8)	0.4	0.3	1.5
AMPLITUDE BALANCE (dB):	+/-0.2	+/-0.2	+/-0.3	+/-1
PHASE BALANCE (Deg.):	+/-1.0	+/-2.0	+/-5.0	+/-5.0
POWER HANDLING:	100 Watt CW			

MECHANICAL:

SIZE: LENGTH=2.047in.[52mm], WIDTH=1in. [25.4mm]
HEIGHT 0.825in. [20.96mm]

WEIGHT: < 3 oz. (85.0 g)

FINISH: BASE IRIDITE PER MIL-C-5541

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
UV, ABRASION, AND SKYDROL RESISTANCE

CONNECTOR: TNC FEMALE
(OPTIONAL: SMA, TNC, N, BNC, MCX, MMCX, F)

ENVIRONMENTAL:

TEMPERATURE: -90 °F TO +257 °F [-67 °C TO +125 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: >30 G's

LEAKAGE: HERMETICALLY SEALED

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

SMA FEMALE CONNECTOR
OPTION: TNC, BNC, N, MCX, MMCX
(DC INPUT: 2.4 to 34 VDC)

TNC FEMALE CONNECTORS
OPTION: SMA, BNC, N, MCX, MMCX
DC ENABLE/DISABLE IS OPTIONAL

FREQ. BAND:	LNA GAIN:	DC OPTION:
1215: (0.2-5) GHz	13: 13 dB GAIN 20: 20 dB GAIN 33: 33 dB GAIN	1: P1/P2/P3 DC ALL BLOCKED 2: P1/P2/P3 DC ALL ENABLED 3: P1/P2 DC ENABLE; P3 DC BLOCKED 4: P1 DC ENABLE; P2/P3 DC BLOCKED 5: P1 DC BLOCKED; P2/P3 DC ENABLED

P/N: 2G1215S-XTS2-4

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	P1/P2/P3 Female Connector:	DC Bias Female Connector:	2: 2-WAY
X: NO CABLE	S: SMA; B: BNC; T: TNC	S: SMA; B: BNC; T: TNC	4: 4-WAY
M: WITH MAG. MOUNT	N: N; M: MCX; MM: MMCX	N: N; M: MCX; MM: MMCX	8: 8-WAY
#: CABLE LENGTH (IN)	F: F; SB: SMB; SC: SMC	F: F; SB: SMB; SC: SMC	
R: RIGHT ANGLE CON.			

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
 \pm 1/64 \pm .002 \pm .1°

TOLERANCE SURF PER ANSI Y14.5
UNLESS OTHERWISE SPECIFIED
BREAK EXTERNAL EDGES .005 TO .010
FILED & SHARP TO .010
SCREW THREADS PER MIL-S-8879
DIMS ON A CONFORM & 2P-020
MACHINED SURFACES \sqrt{R}

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
2, 4-WAY, IN PHASE
with DC INPUT
POWER DIVIDER/COMBINER

APPROVED S. HUYVIN MAY-03-11
D 3CVE1 2G1215S-XTS2-4
SCALE 1/1 SHEET 1 OF 1



ISO 9001:2008/FAA Approved Facility

4-Way Power Divider/Combiner for Multiple Channels,

(P/N: 4G1215S-XX4-X)

2, 3, 5, 6 Ways are also Available



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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(0.250-0.500) GHz	(0.5-1.0) GHz	(1.0-3.0) GHz
VSWR:	< (2.0-3.5):1	< 2.0:1	< 1.5:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
INSERTION LOSS (dB):	(0.6 to 1.6)	0.8	0.6
AMPLITUDE BALANCE (dB):	+/-0.2	+/-0.2	+/-0.2
PHASE BALANCE (Deg.):	+/-1.0	+/-1.0	+/-1.0
POWER HANDLING:	100 Watt CW		

MECHANICAL:

SIZE: LENGTH=1.50 in. [38.10 mm], WIDTH=3.00 in. [76.2 mm]
 HEIGHT 0.40 in. [10.16 mm]
 WEIGHT: 3.00 oz. (85 g)
 FINISH: BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 UV, ABRASION, AND SKYDROL RESISTANCE

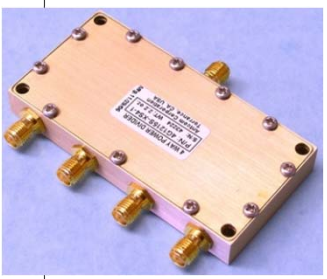
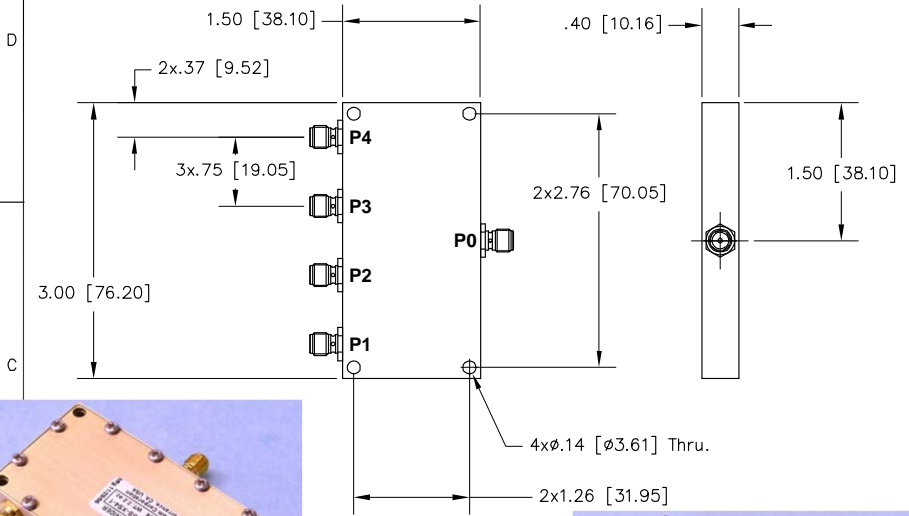
CONNECTOR: SMA FEMALE
 (OPTIONAL: TNC, OR N)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
 -85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)
 ALTITUDE: 70,000 ft.
 VIBRATION: >30 G's
 LEAKAGE: HERMETICALLY SEALED

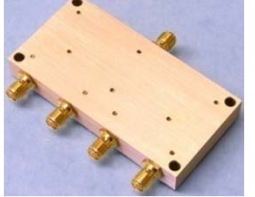
FEDERAL & MILITARY SPECIFICATIONS:

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



SMA FEMALE CONNECTORS
 (TNC, N, OR CABLE IS OPTIONAL)
 DC ENABLE/DISABLE IS OPTIONAL

SMA FEMALE CONNECTOR
 (TNC, N, OR CABLE IS OPTIONAL)
 DC ENABLE/DISABLE IS OPTIONAL



FREQ. BAND:	LNA GAIN:	DC OPTION:
1215: 0.3-3 GHz	13: 13 dB GAIN 20: 20 dB GAIN 33: 33 dB GAIN	1: ALL DC INPUT/OUTPUT DISABLE 2: ALL DC INPUT/OUTPUT ENABLE P1: PORT P1 DC INPUT/OUTPUT ENABLE P12: PORT P1, P2 DC INPUT/OUTPUT ENABLE P123: PORT P1, P2, P3 DC INPUT/OUTPUT ENABLE

P/N: 4G1215S-XS4-1

CABLE LENGTH:	CONNECTOR:	
X: NO CABLE	T: TNC (Optional Bulkhead)	2: 2-WAY
M: WITH MAG. MOUNT	S: SMA	4: 4-WAY
#: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	8: 8-WAY
R: RIGHT ANGLE CON.	M: MCX	

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
1						1

UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES	
FRACTIONS	DECIMALS	ANGLES	
± 1/64	± .005	± 1°	
TOLERANCE SIM PER ANSI Y14.5			
REMOVE ALL BURRS			
BREAK EXTERNAL EDGES TO 216			
FILED IN 006 TO R 020			
SOFTEN THREADS FOR 8-3-8879			
DATA ON A COMMON 11-22-006			
MACHINED SURFACES			
DO NOT SCALE DRAWING			

ANTCOM CORP. TORRANCE, CALIFORNIA	
(0.3-3) GHz 4-WAY IN PHASE POWER DIVIDER/COMBINER	
REV: D	DATE: 03VE1
DESIGNED BY: S. HUYNH	DATE: Feb-09-04
PART NO: 4G1215S-XS4-1	REV: -
SCALE: 1/1	SHEET: 1 OF 1

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

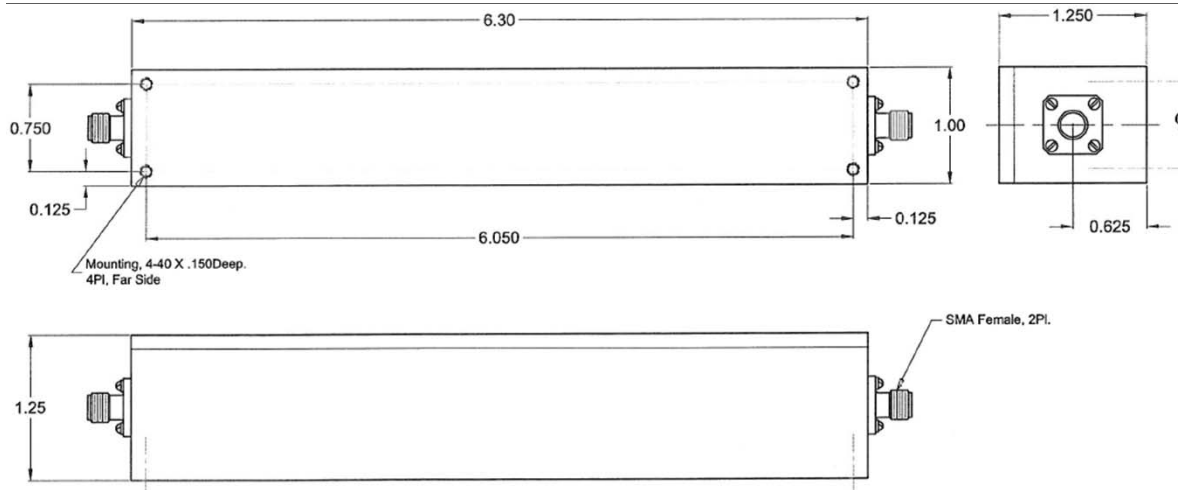


ISO 9001:2008/FAA Approved Facility

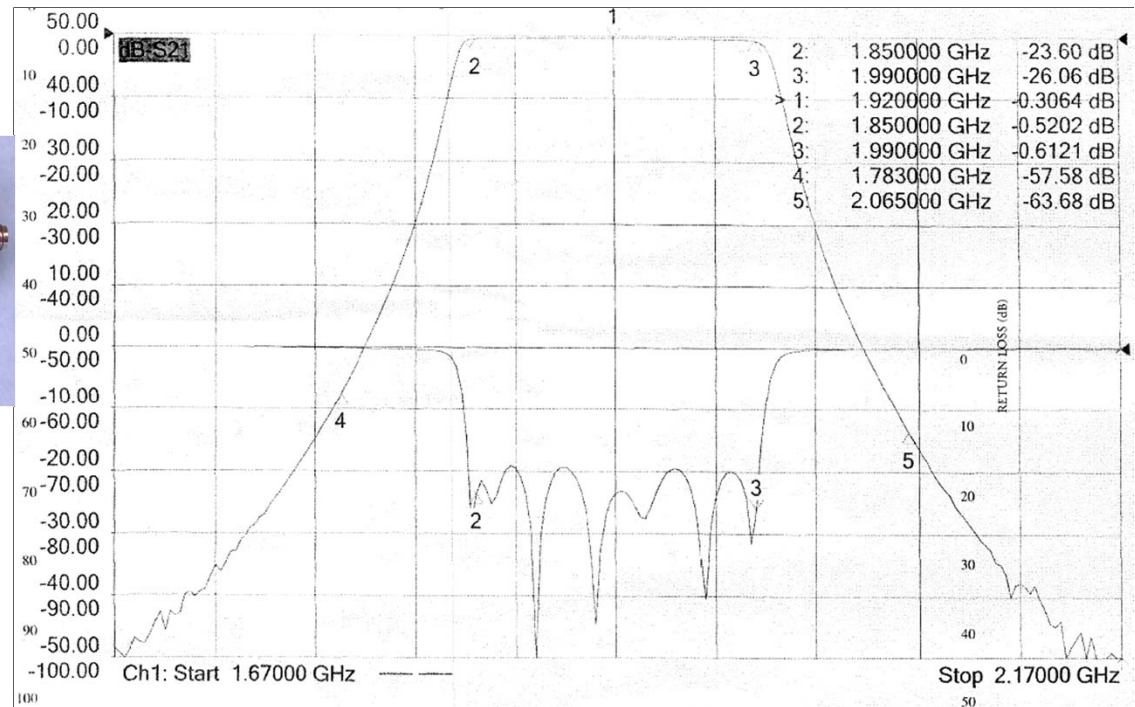
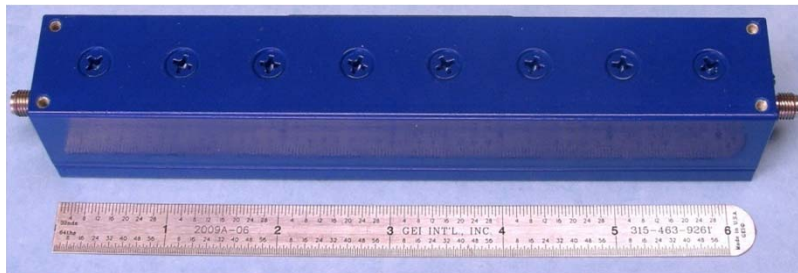
P/N: CDMA-8PB-L-20-1880K9R60FA, Item 789a (8CX7-1920-X140 S11) 20 watts CDMA Band Pass Filter



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Pass Band (MHz): (1850 - 1990)
 3-dB BW (MHz): (1845 – 1995)
 Selectivity BW (MHz): (1783 – 2056)
 Selectivity (dB): >50 (>57 Measured)
 Insertion Loss (dB): <1 (<0.6 measured)
 CW Power Handling: 20W
 Connectors: SMA Female
 Size: 1.0" x 1.25" x 6.05"



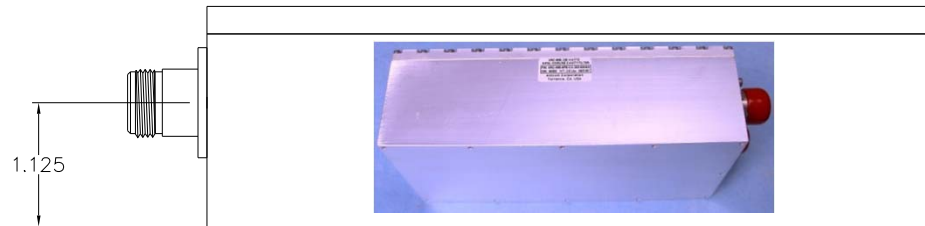


P/N: VRC-99B-8PB-CA-200-936420 (936420), Item 789
VRC-99B, 200watts, 8-Pol Comline Cavity filter

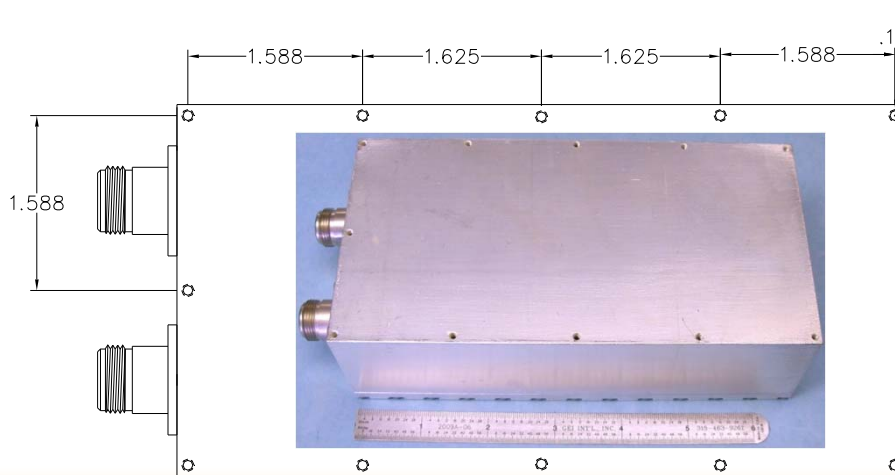
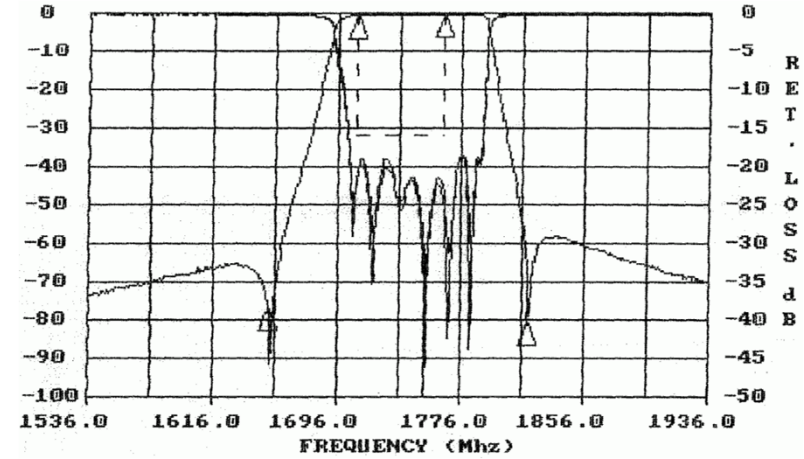


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Pass band: (1708 – 1764) MHz
 Insertion Loss: < 1.5 db over the passband
 Return Loss: 16 db over BW
 Rejection: -70 db min @ 1651, 1820 MHz
 Power: 200 CW.
 Size: (6.625 x 2.000 x 3.175) inches.
 Connectors: N-F
 Temperature: -55C to +125C

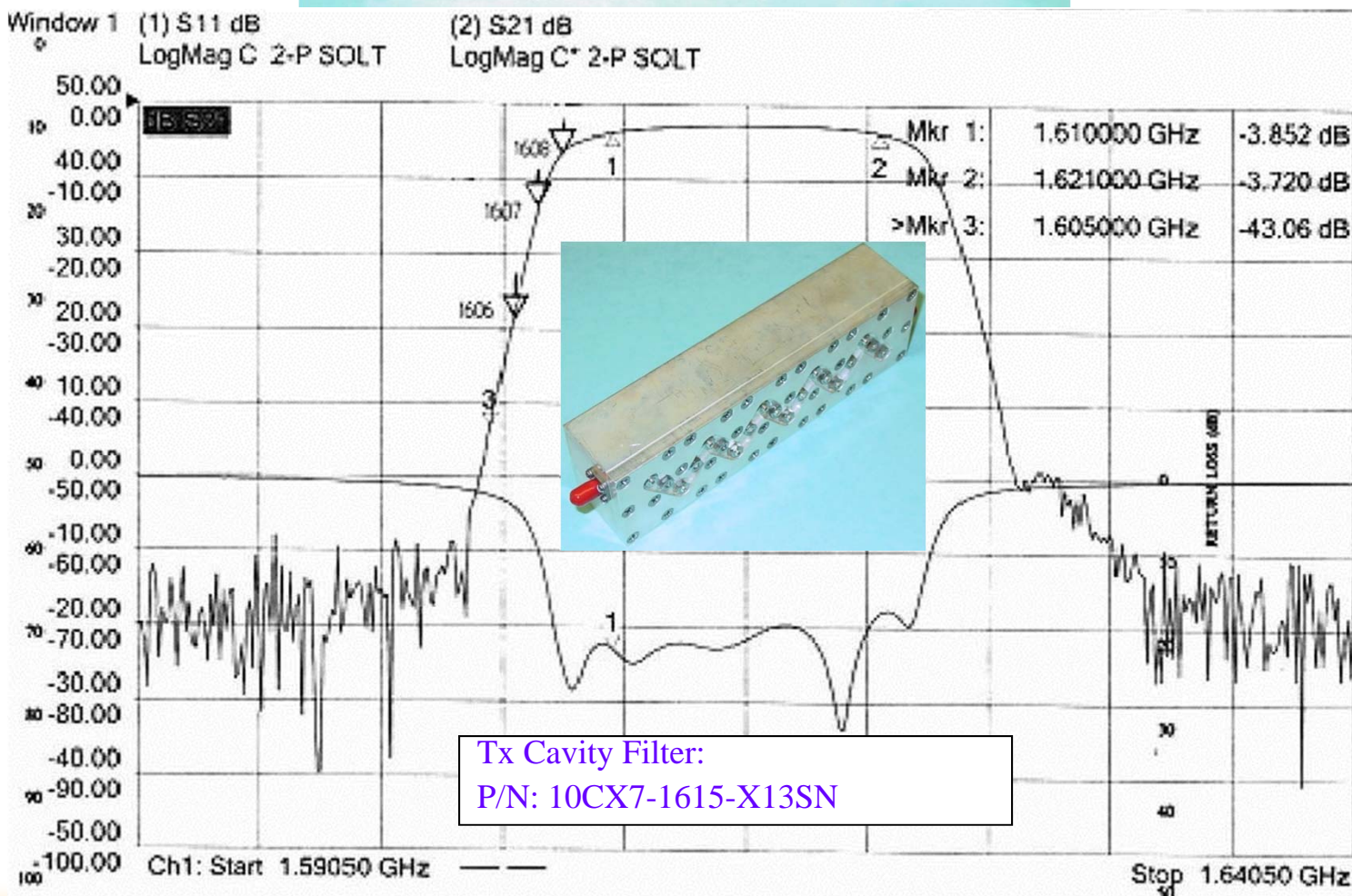


FREQUENCY (MHZ)	VALUE	SPEC	COMMENTS
1651	-76.3 dbC	-70 dbC MIN	
1820	-80.1 dbC	-70 dbC MIN	
1708 - 1764	-.473 dbA	-1.5 dbA MAX	
	VALUE	SPEC	COMMENTS
	99.06 MHZ	56 MHZ MIN	-3dbC Width
	1743.23MHZ	1708 MIN	Center Freq.
	1743.23MHZ	1764 MAX	Center Freq.
FREQUENCY (MHZ)	VALUE	SPEC	COMMENTS
1708 - 1764	-18.9	-16 db MIN	(S11) - VSWR
1708 - 1764	-18.9	-16 db MIN	(S22) - VSWR

Tx Globalstar Cavity Filter, P/N: 10C7-1615-X13SN (Item 785)



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Tx Cavity Filter:
P/N: 10CX7-1615-X13SN



6C9-1621.25-X10.5T11

Reactel part number 6C9-1621.25-X10.5T11 is a cavity bandpass filter for the Iridium band. This unit is specifically designed with a narrow bandwidth and high rejection to isolate Iridium frequencies from outside interference due to Inmarsat systems, and utilizes a special plating process. We also offer a “commercial” version and details for that unit can be had from the factory. This unit can be outfitted with any RF connector you may desire. Please contact the factory for this or any other Iridium filter requirement that you have.



Specifications

Center Frequency	1621.25 MHz
Passband	1616 – 1626.5 MHz, minimum
Insertion Loss	≤ 3.3 dB @ Passband
Rejection	≥ 35 dB @ 1614 MHz
Rejection	≥ 25 dB @ 1628 MHz
VSWR	≤ 1.5:1
Connectors	TNC Female in / out
Size	1.5” x 4.5” x 6.3” nominal



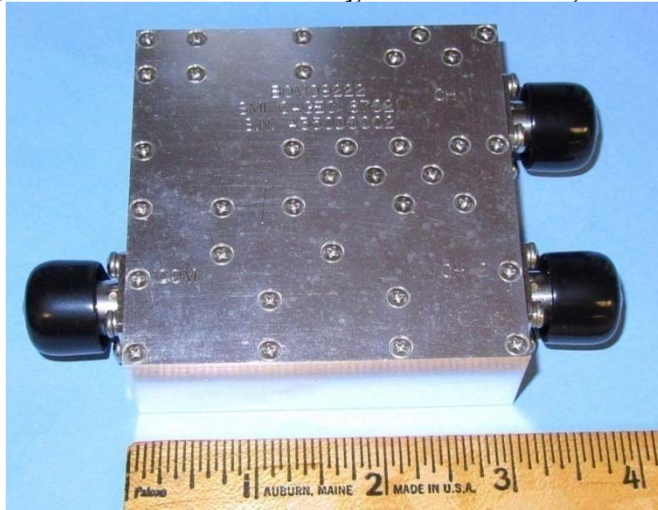
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VHF/UHF Diplexer

Antcom's P/N: D50W-30-85-225-450-XN-4 (Item 790-UHF)



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NOTES:

1. MATERIAL: AL AL1
2. FINISH: SILVER PLATE.
3. ELECTRICAL SPECIFICATIONS:



CHANNEL 1:

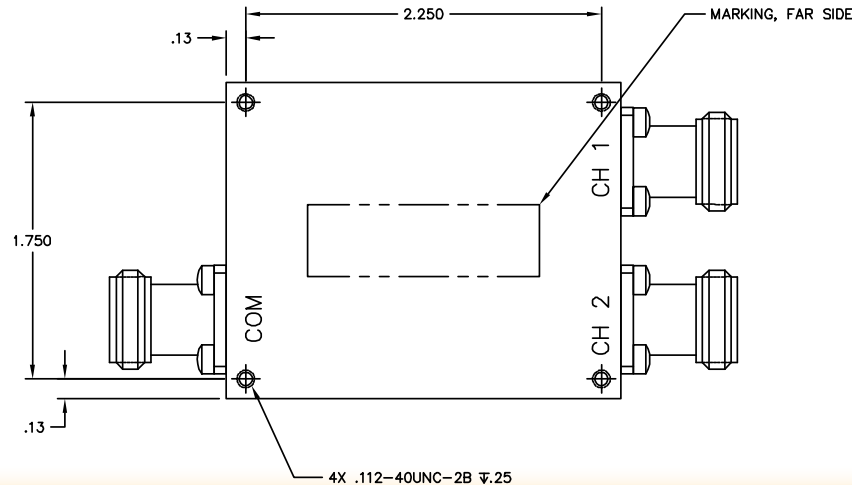
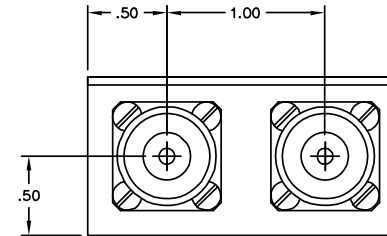
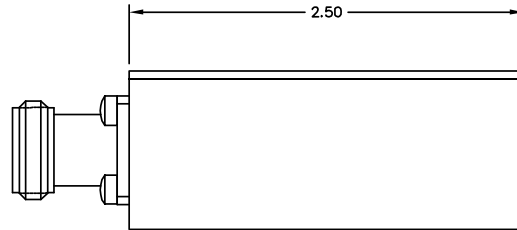
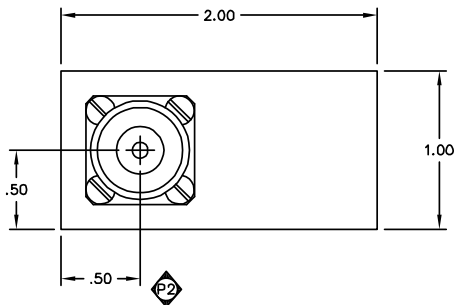
- PASSBAND = 30 TO 85 MHz MIN
- I.L. = 1.0 dB MAX OVER THE PASSBAND
- VSWR = 1.5:1 MAX OVER THE ENTIRE PASSBAND (REF 50 OHMS)
- POWER HANDLING = 50 WATTS C.W. MAX
- REJECTION = 60 dBc MIN FROM 200 TO 450 MHz

4. ENVIRONMENTAL SPECIFICATIONS:

- OPERATING TEMPERATURE RANGE = 0 TO +85°C
- STORAGE TEMPERATURE RANGE = -20°C TO +85°C

CHANNEL 2:

- PASSBAND = 225 TO 450 MHz MIN
- I.L. = 1.0 dB MAX OVER THE PASSBAND
- VSWR = 1.5:1 MAX OVER THE ENTIRE PASSBAND (REF 50 OHMS)
- POWER HANDLING = 25 WATTS C.W. MAX
- REJECTION = 60 dBc MIN FROM DC TO 90 MHz





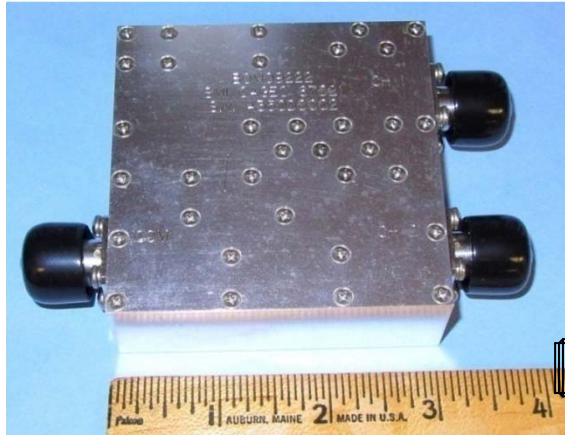
ISO 9001:2008/FAA Approved Facility

UHF Diplexer

Antcom's P/N: D50W-225-400-420-450-XN-4 (Item 790-UHF1)



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NOTES:

1. MATERIAL: AL AL1
2. FINISH: SILVER PLATE.
3. ELECTRICAL SPECIFICATIONS:

CHANNEL 1:

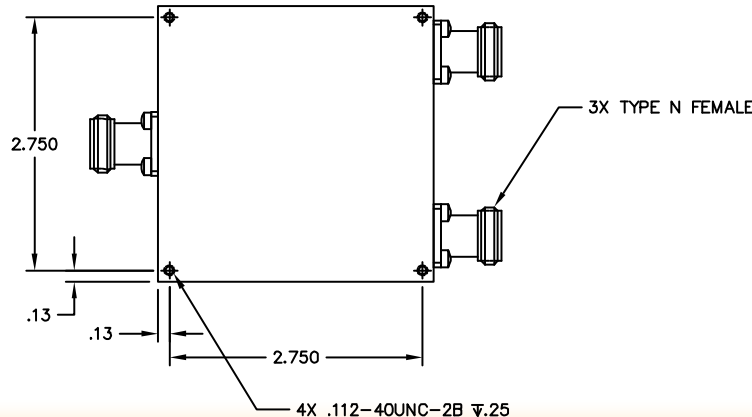
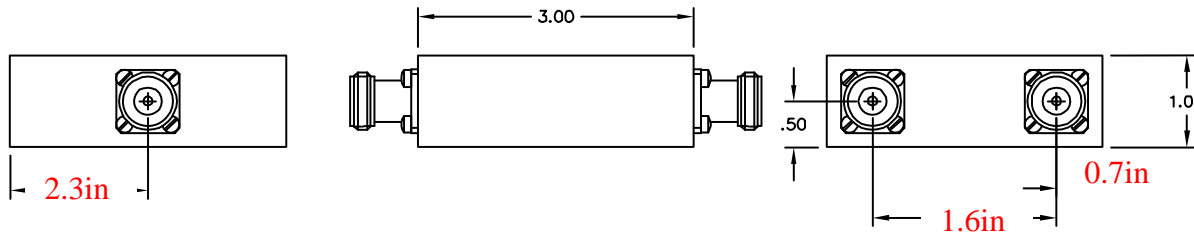
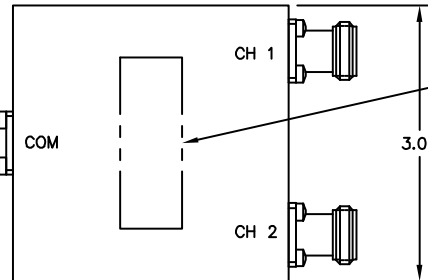
PASSBAND = 225 TO 400 MHz
 I.L. = 1.0 dB MAX OVER 225 TO 390 MHz
 I.L. = 1.25 dB MAX OVER 390 TO 400 MHz
 VSWR = 1.5:1 MAX OVER 225 TO 400 MHz (REF 50 OHMS)
 40 dBc MIN FROM 420 TO 450 MHz
 INPUT POWER = 100 WATTS C.W. (WITHIN THE PASSBAND ONLY)

4. ENVIRONMENTAL SPECIFICATIONS:

TEMPERATURE RANGE = 0 TO +60°C

CHANNEL 2:

PASSBAND = 420 TO 450 MHz
 I.L. = 1.0 dB MAX OVER 430 TO 450 MHz
 I.L. = 1.25 dB MAX OVER 420 TO 430 MHz
 VSWR = 1.5:1 MAX OVER 420 TO 450 MHz (REF 50 OHMS)
 40 dBc MIN FROM 225 TO 400 MHz
 INPUT POWER = 100 WATTS C.W. (WITHIN THE PASSBAND ONLY)





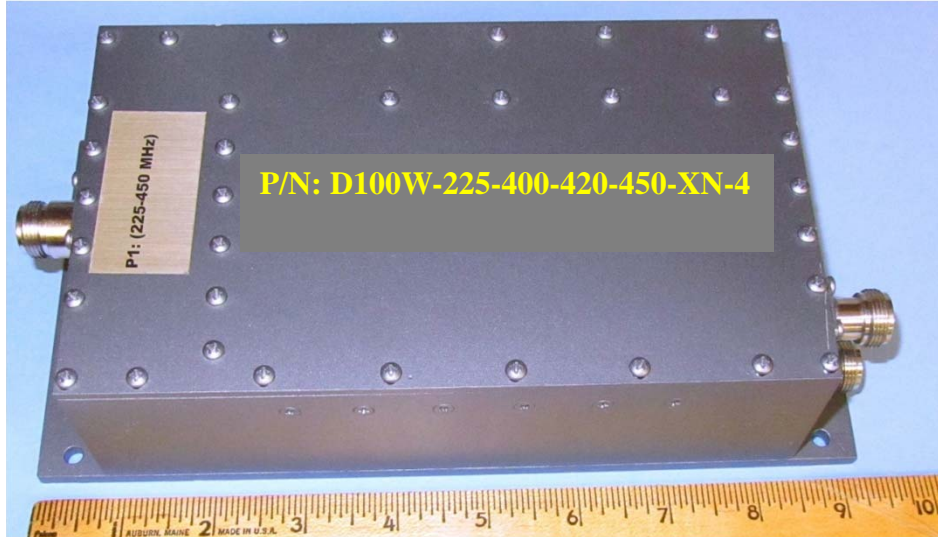
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UHF Diplexer

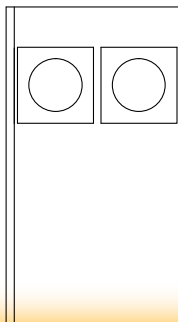
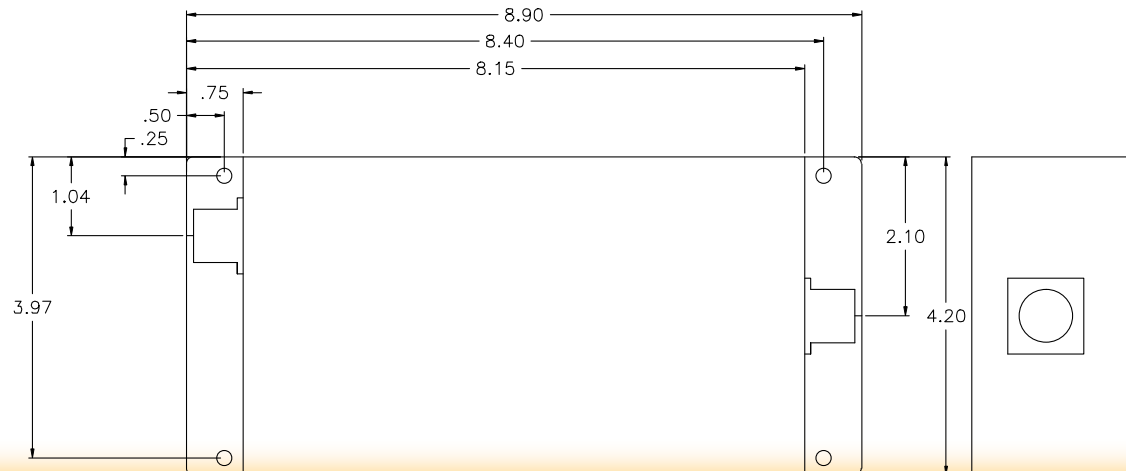
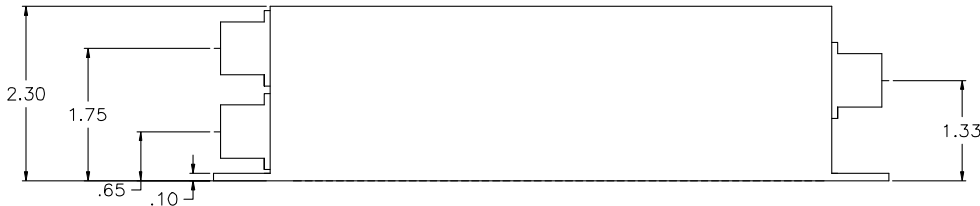
Antcom's P/N: D100W-225-400-420-450-XN-4 (Item 790-UHF2)



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	Port 1 to Port 2	Port 1 to Port 3
Pass Band Frequency:	225 to 400MHz	420 to 450MHz
Pass Band Loss	1dB max	1dB max
Pass Band VSWR	1.5:1 max	1.5:1 max
Impedance	50 Ohms	50 Ohms
Rejection Frequency	420 to 450MHz	225 to 400MHz
Rejection	40 dB min	40 dB min
Power	100 Watts CW max	100 Watts CW max
Size	Length = 8.0 in, Width = 4.0 in, Height = 2.0in	
Weight	TBD	
Finish	Iridized	
Material	Aluminum Alloy 6061-T6	
Connector	N Female	
Leakage	Hermetically sealed	
Temperature	-68° C to +85° C Operational -68° C to +150° C Storage	



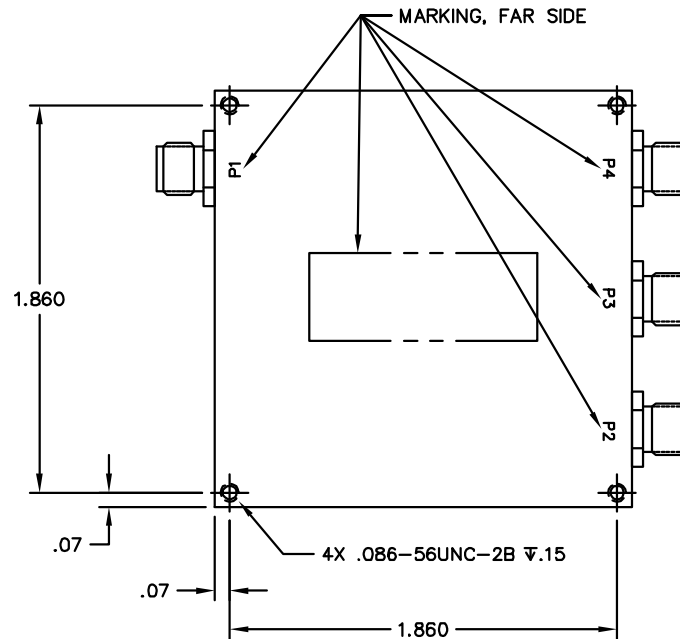
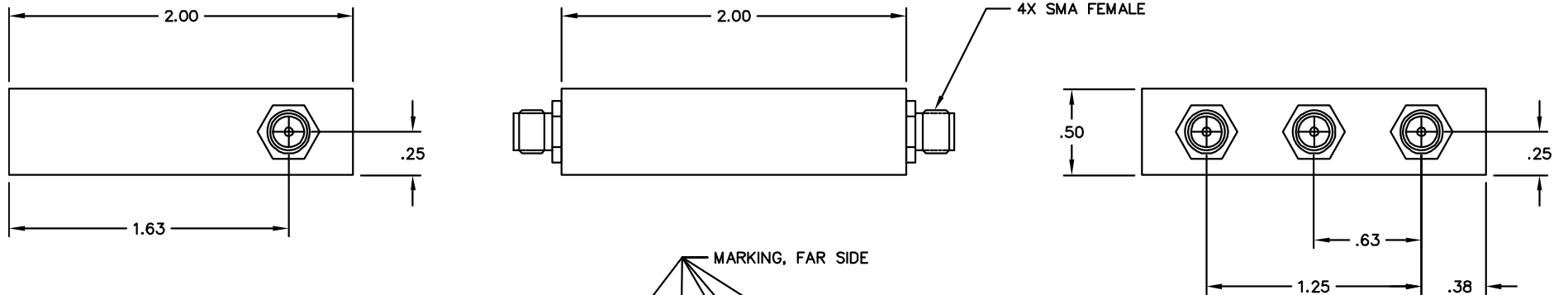


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L/S/C1-Band Triplexer
Antcom's P/N: D35W-1370-1750-2350-XS-4 (Item 790-LSC1)



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NOTES:

1. MATERIAL: AL ALY.
 2. FINISH: SILVER PLATE.
 3. ELECTRICAL SPECIFICATIONS:
 - CHANNEL P2:
 - PASSBAND = 1350 TO 1390 MHz
 - PASSBAND I.L. = 1.0 dB MAX FROM 1350 TO 1390 MHz
 - PASSBAND VSWR = 2:1 MAX
 - 24 dBc MIN FROM 1650 TO 1850 MHz
 - CHANNEL P3:
 - PASSBAND = 1650 TO 1850 MHz
 - PASSBAND I.L. = 1.0 dB MAX FROM 1650 TO 1850 MHz
 - PASSBAND VSWR = 2:1 MAX
 - 24 dBc MIN FROM 1350 TO 1390 MHz AND FROM 2200 TO 2500 MHz
 - CHANNEL P4:
 - PASSBAND = 2200 TO 2500 MHz
 - PASSBAND I.L. = 1.0 dB MAX FROM 2200 TO 2500 MHz
 - PASSBAND VSWR = 2:1 MAX
 - 24 dBc MIN FROM 1650 TO 1850 MHz
 - P1 VSWR = 2:1 MAX ACROSS EACH PASSBAND
 - INPUT POWER: 35 WATTS C.W. MAX
4. ENVIRONMENTAL SPECIFICATIONS:
 - OPERATING TEMPERATURE RANGE: 0° TO +60°C.
 - NON-OPERATING TEMPERATURE RANGE: -40° TO +85°C.
 - VIBRATION: MIL-STD-810F, METHOD 514.5, PROCEDURE I, CATEGORY 2, SHIPPING AND HANDLING.
 - SHOCK: MIL-STD-810F, METHOD 516.5, PROCEDURE VI



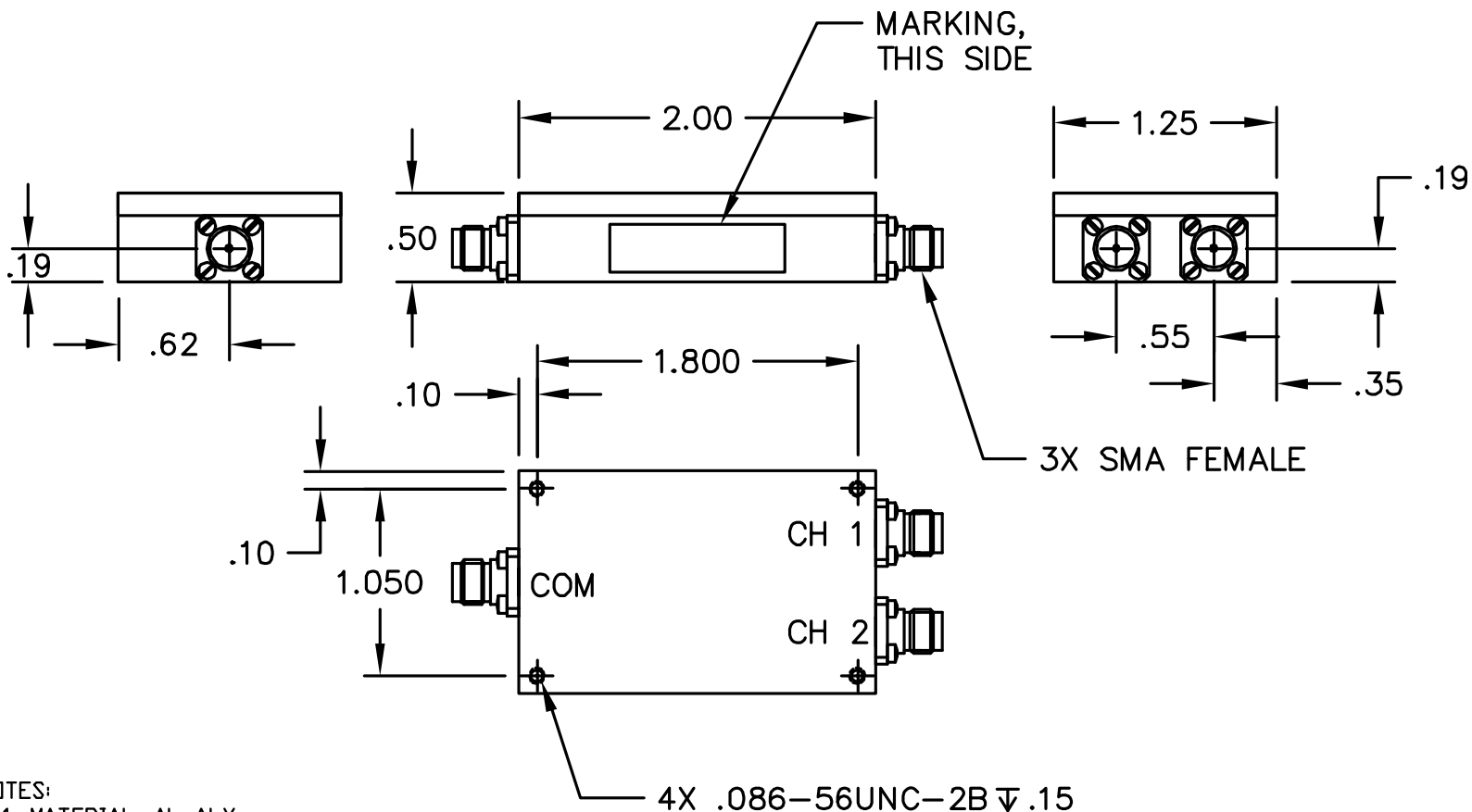
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Ku-Band Diplexer

Antcom's P/N: D1W-7825-1337-XS-4 (Item 790-Ku)



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NOTES:

1. MATERIAL: AL ALY.
2. FINISH: SILVER PLATE.
3. ELECTRICAL SPECIFICATIONS:

CHANNEL 1:

PASSBAND = 7.25 TO 8.40 GHz
 I.L. = 0.5 dB MAX OVER ENTIRE PASSBAND
 VSWR = 1.5:1 MAX OVER ENTIRE PASSBAND (REF 50 OHMS)
 30 dBc MIN FROM 12.25 TO 14.50 GHz
 POWER HANDLING = 1 WATT MAX WITHIN THE PASSBAND ONLY

CHANNEL 2:

PASSBAND = 12.25 TO 14.50 GHz
 I.L. = 0.5 dB MAX OVER ENTIRE PASSBAND
 VSWR = 1.5:1 MAX OVER ENTIRE PASSBAND (REF 50 OHMS)
 30 dBc MIN FROM 7.25 TO 8.40 GHz
 POWER HANDLING = 1 WATT MAX WITHIN THE PASSBAND ONLY

4. ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE RANGE = 0°C TO +60°C
 STORAGE TEMPERATURE RANGE = 0°C TO +60°C



ANTCOM

ISO 9001:2008/FAA Certified
Made in USA

Leading Manufacturer & Rapid Customization of High End
UHF, L, S, C, X, Ku-Band,
GPS, Glonass, GNSS, CRPA, Compass, Iridium, Inmarsat,
Thuraya, Globalstar, XM/Sirius, GSM, and Wi-Fi
Antennas
for Avionics, Ground, and Marine Applications



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Antcom's Antennas Have Been Used on below Avionics, Ground, and Marine Platforms



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[Links to Pdf Catalogs:](#)

L1/L2/L5 GPS, L1/L2 Glonass, Omnistar, Galileo, Compass, GSM, Iridium, Inmarsat, Globalstar, Thuraya, XM/Sirius, UHF, L, S, C, X, Ku-band Antennas, Power Divider/combiner, Amplifiers, and RF Cables.



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<http://www.antcom.com/documents/catalogs/UHF-BandAntennas.pdf>
<http://www.antcom.com/documents/catalogs/LSC-BandAntennas1.pdf> (UHF, L, S, C, X, and Ku-Band Antennas)
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<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf> (Antenna Mounts/Adapters/O-Rings/Gaskets)
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http://www.antcom.com/documents/catalogs/Antcom_Sextant_Port_Antennas.pdf
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Antcom's Qualification/Certification Standards



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- 1) **ISO 9001-2008** : Registered through SGS
- 2) **TSO C-144**: Certified by FAA
- 3) **Environmental**: RTCA/DO-160D, TSO C144
- 4) **Lightning**: DO-160F, Direct Effects , Section 23
- 5) **Electrical**: TSO C144, RTCA/DO-228/DO-254, Mil-STD-461F
- 6) **CE**: EMC Directive 89/336/EEC (European Union) & 47CFR, Part 15, Subpart B (FCC)
- 7) **EMC/Emission**: EUROPEAN STANDARD EN 55022: 2006 / UNITED STATES STANDARD 47 CFR PART 15, SUBPART B
- 8) **Immunity**: EUROPEAN STANDARD EN 55024: 1998, Amendment A2: 2003
- 9) **Pick/Place, Soldering, Circuit Boards**: IPC JSTD-001D, IPC-A-610D, ESD-STD-20.20, JESD-625a, IPC-A-610C Class 3
- 10) **Printed Circuit Board (PCB)**: IPC-A-600G.
- 11) **Connectors/Adapters/Cables**: Mil-PRF-39012/55339, IPC-A-620A, IPC JSTD-001D
- 12) **Stainless Steel Material for Screws**: DFARS 252-225-7014/DFARS 225.872-1, and MS Standards.
- 13) **Aluminum Material**: Al6061-T6 per ASTM-B-221.
- 14) **Chem Film**: Mil-C-5541F Type I Class 1A for Yellow, Type II Class 1A for Clear (ROHS).
- 15) **Black Anodize**: MIL-A-8625F Type II Class II.
- 16) **REACH Compliance**: SVHC Candidate List Published by European Chemical Agency (ECHA) on Oct-28-2008 Regarding Regulation (EC) No 1907/2006 Concerning REACH

CE Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Antenna_CE_Approval_Test%20Report_1_of_2.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_CE_Approval_Test%20Report_2_of_2.pdf

EMI/EMC/Emission/Immunity/High Power Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_461E_EMI_Test_Report_antc1853.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_461F_Electromagnetic_Susceptibility_Test_Report_antc1897.pdf

http://www.antcom.com/documents/catalogs/EMC_Test_Report1_Feb_29_08_SC801023_01.pdf

http://www.antcom.com/documents/catalogs/EMC_Test_Report2_Feb_29_08_SC801023_01.pdf

http://www.antcom.com/documents/catalogs/Immunity_Test_Report3_Feb_29_08_SC801023_01.pdf

<\\0-Antcom's Products\Quality Control Information\TSO, EMI, FCC, CE, and Other Environmental Qual Test Data\High Power Test Report for ATP-Mini-Qual-GPS, Antcom's Paveway Antenna, Dec-19-06.pdf>

http://www.antcom.com/documents/catalogs/Immunity_Test_Report3_Feb_29_08_SC801023_01.pdf

Lightning Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Lightning_Test%20Report_TR056159.pdf

http://www.antcom.com/documents/catalogs/Antcom_5B_Antenna_DO_160F_Lightning_P_Static_Test_Report_TR056376_Dec_28_09.pdf

Environmental Test Report:

http://www.antcom.com/documents/catalogs/Antcom_5B_Antenna_DO_160D_Test_Report_antc7764_Rev1_Jan_10_10.pdf

http://www.antcom.com/documents/catalogs/Antcom_DO_160D_Test.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_810C_D_Test_Report_antc1852_2.pdf

http://www.antcom.com/documents/catalogs/Vibration_Test_Report_for_Antcom_C130_Sexant_Port_Antenna.pdf

<\\0-Antcom's Products\Quality Control Information\TSO, EMI, FCC, CE, and Other Environmental Qual Test Data\Antcom Antenna REACH Compliance.pdf>

NGS (NOAA) Government Calibration Test Report for GPS/GNSS Antennas:

http://www.ngs.noaa.gov/cgi-bin/query_cal_antennas.prl?Model=ACC

Contacts:

Website: <http://www.antcom.com>; RFQ/RFP: sales@antcom.com; Send POs: sales@antcom.com; Order Status: status@antcom.com; Tech Support: tech@antcom.com,

RMA: rma@antcom.com, QA: qa@antcom.com, Accounting: accounting@antcom.com; Purchasing: purchasing@antcom.com, HR: hr@antcom.com, Facility: facility@antcom.com,

Corporate Contact: Sean@antcom.com

Certificate US08/5275

The management system of

Antcom Corp.
367 Van Ness Way, Suite 602
Torrance, California 90501, United States

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities:

Design, Manufacturer and Testing of Antennas and RF/Microwave Components.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization.

This certificate is valid from 4 November 2011 until 4 November 2014 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 3 : 27 October 2011. Certified since November 2008.

Authorized by

Zachary C. Pyramik
Zachary C. Pyramik
Director of Accreditation, North America
Systems & Services Certification, a Division of SGS North America, Inc.
201 Route 17 North, Rutherford, NJ 07070, USA
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This certificate remains the property of SGS and shall be returned upon request.

Page 1 of 1

SGS

ANAB ACCREDITED

- Year of Incorporation:** Oct-02-1996 (California Corp)
- TAX ID:** 33-0731772
- Business License:** BUS-0114500
- Sale Permit:** SR AS 97-286780
- DUNS:** 008912367 (3A1)
- Cage Code:** 3CVE1
- ITAR:** Registered
- NAICS:** 334220
- SIC:** 3663
- ECCN:** 5A991.b
- HTS:** 8529104000