



FAA Approved Facility

(7.0-9.0 GHz) 2-Way Power Divider/Combiner

P/N: 1G7090S-XS2-X



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

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SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	(7.0-9.0) GHz
VSWR:	< 1.2:1
IMPEDANCE:	50 ohms
ISOLATION (dB):	20
INSERTION LOSS (dB):	0.5
AMPLITUDE BALANCE (dB):	.25
PHASE BALANCE (Deg.):	6
POWER HANDLING:	100 Watt CW

MECHANICAL:

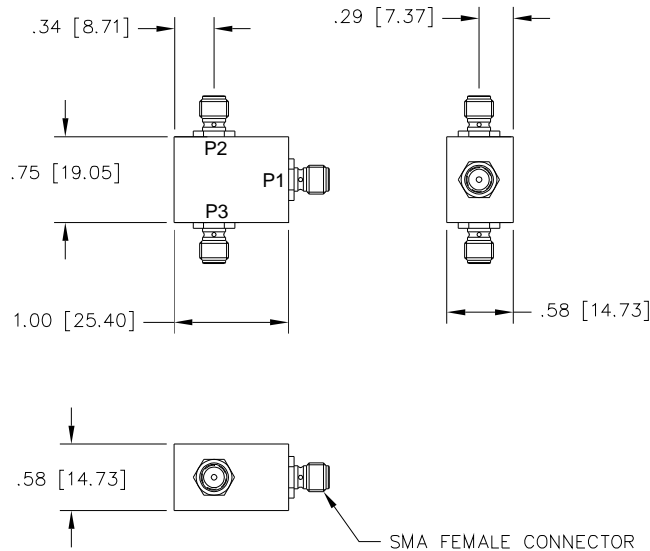
SIZE:	LENGTH=1.00 in. [25.40 mm], WIDTH=0.75 in. [19.05 mm] HEIGHT 0.58 in. [14.73 mm]
WEIGHT:	0.77 oz. (22 g)
FINISH:	BASE IRIDITE PER MIL-C-5441F
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE UV, ABRASION, AND SKYDROL RESISTANCE
CONNECTOR:	SMA FEMALE

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +212 °F [-55 °C TO +100 °C] (Operational)
ALTITUDE:	-67 °F TO +212 °F [-55 °C TO +100 °C] (Operational)
VIBRATION:	70,000 ft.
LEAKAGE:	>30 G's 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:
1215: (0.3-3) GHz	13: 13 dB GAIN	1: P1/P2/P3 DC ALL BLOCKED
7090: (7.0-9.0) GHz	20: 20 dB GAIN	2: P1/P2/P3 DC ALL ENABLED
	33: 33 dB GAIN	3: P1/P2 DC ENABLE; P3 DC BLOCKED
		4: P1 DC ENABLE; P2/P3 DC BLOCKED
		5: P1 DC BLOCKED; P2/P3 DC ENABLED

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

CABLE'S LENGTH:	CONNECTOR:
X: NO CABLE	S: SMA
M: WITH MAG. MOUNT	2: 2-WAY
#: CABLE LENGTH (IN)	4: 4-WAY
R: RIGHT ANGLE CON.	8: 8-WAY

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1						1

UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES	
FRACTIONS	DECIMALS	ANGLES	
± 1/64	± .010	± 1°	
TOLERANCE SURF PER ANSI Y14.5			
BREAK EXTERNAL EDGES .005 TO .015			
FILED & SCREW TO R. DIM			
SCREW DRIFTS PER MIL-S-8879			
DR'S ON A COMMON Q. 20-000			
MACHINED SURFACES 12.5			
DO NOT SCALE DRAWING			

ORIGINALLY DRAWN	S. HUYNH	DATE	Feb-09-04
ORIGINALLY DESIGNED <td>S. HUYNH <td>DATE <td>Feb-09-04</td> </td></td>	S. HUYNH <td>DATE <td>Feb-09-04</td> </td>	DATE <td>Feb-09-04</td>	Feb-09-04
UPDATED <td>S. HUYNH <td>DATE <td>June-17-13</td> </td></td>	S. HUYNH <td>DATE <td>June-17-13</td> </td>	DATE <td>June-17-13</td>	June-17-13
UPDATE DRAWN <td>P. TRAN <td>DATE <td>June-17-13</td> </td></td>	P. TRAN <td>DATE <td>June-17-13</td> </td>	DATE <td>June-17-13</td>	June-17-13
APPROVED <td>S. HUYNH <td>DATE <td>June-17-13</td> </td></td>	S. HUYNH <td>DATE <td>June-17-13</td> </td>	DATE <td>June-17-13</td>	June-17-13

ANTCOM CORP. TORRANCE, CALIFORNIA	
2-WAY, IN PHASE POWER DIVIDER/COMBINER	
REV: D	3CVE1
DRAWN NO:	1G7090S-XS2-X
SCALE:	1/1
SHEET:	1 OF 1