

BIAS TEES SMA

UP TO 6 GHz
100 VOLTS / 7 AMPS



MODELS: 8820SMFX-0Y, 8820SFFX-0Y, 8820SMMX-0Y, 8820SFMX-0Y

SPECIFICATIONS:

Electrical:

Frequency Range:
 8820SXXY-02 _____ 500 MHz – 2.5 GHz
 8820SXXY-06 _____ 1 – 6 GHz
 Insertion Loss:
 8820SXXY-02 _____ 0.50 dB Max.
 8820SXXY-06 _____ 1.00 dB Max.
 VSWR:
 8820SXXY-02 _____ 1.40:1 Max.
 8820SXXY-06 _____ 1.50:1 Max.
 Isolation (RF to Bias Port) _____ > 20dB Typ.
 Impedance _____ 50 Ohms
 Bias-Path Resistance _____ 0.008 Ohms Typ., 0.010 Ohms Max.
 DC Voltage _____ 100 VDC Max.
 DC Current _____ 7 Amps Max.
 RF Power _____ 50 Watts Max.
 Current Rating vs Temperature _____ See Graph

Environmental:

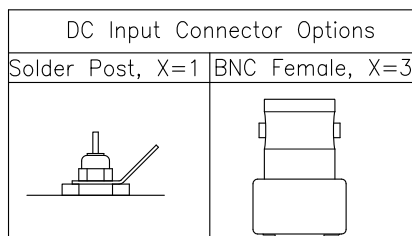
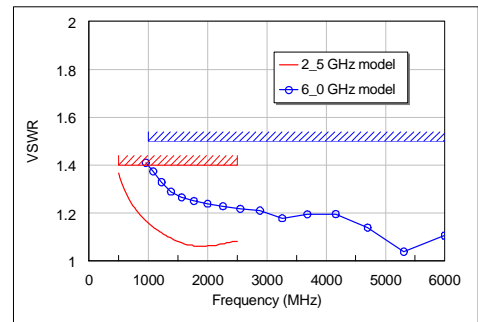
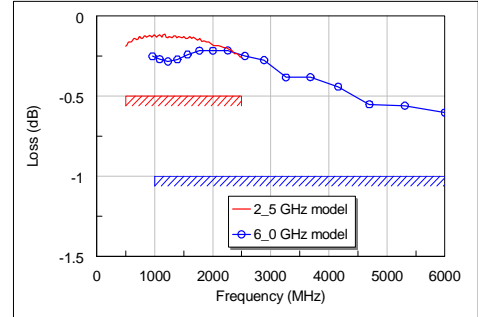
Operating Temperature Range _____ -55°C to +105°C
 Storage Temperature Range _____ -60°C to +90°C

Mechanical:

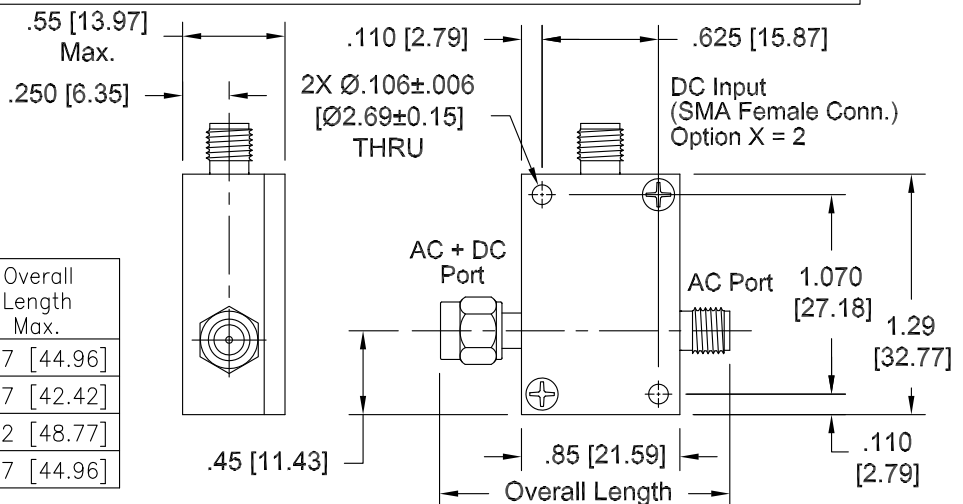
SMA Connectors _____ Passivated Stainless Steel
 Mates with MIL-STD-348
 BNC Connectors _____ Nickel Plated Brass
 Mates with MIL-STD-348
 Conductors _____ Gold Plated Beryllium Copper
 Body _____ Aluminum with
 Chemical Conversion Coating

For epoxy sealed units, add -440 to model number

Typical performance of
2.5 and 6.0 GHz units.



Model Numbers	Connector Configuration Port		Overall Length Max.
	AC + DC	AC	
8820SMFX-YY	Male	Female	1.77 [44.96]
8820SFFX-YY	Female	Female	1.67 [42.42]
8820SMMX-YY	Male	Male	1.92 [48.77]
8820SFMX-YY	Female	Male	1.77 [44.96]



HOW TO ORDER:

Model Number: **8820SXXY-ZZ-XXX**
 Base Number _____
 Frequency Range _____
 DC Connector Type _____
 1 = Solder Post
 2 = SMA Female Conn.
 3 = BNC Female Conn.

Ordering Examples:

Model Number: **8820SFF2-02**
 500 MHz – 2.5 GHz, SMA Fem/Fem
 SMA Female DC Connector Type

Model Number: **8820SMF1-06**
 1 – 6 GHz, SMA Male/Fem
 Solder Post DC Connector Type

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.
 Design specifications are subject to change without notice.
 Contact factory for technical specifications before purchasing or use.

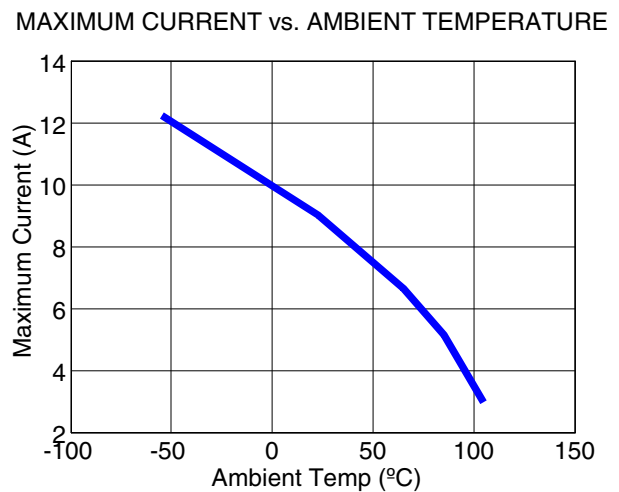
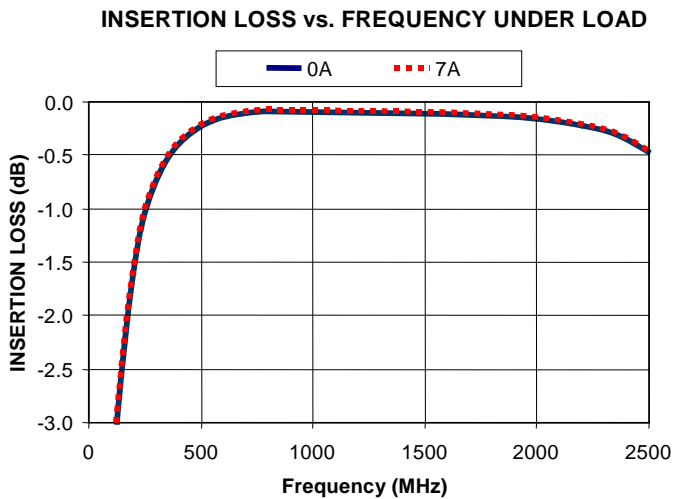
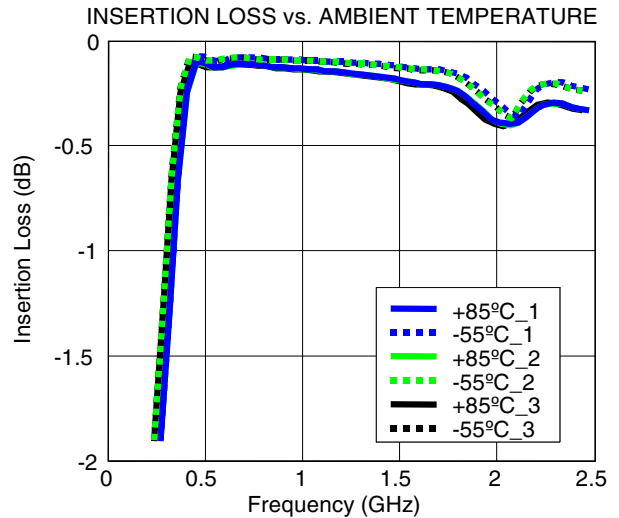
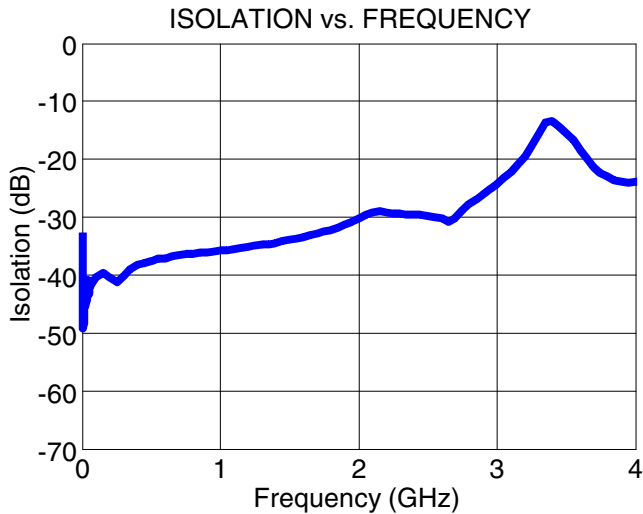
PROPRIETARY NOTICE

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REVISIONS

LTR	DESCRIPTION	DATE	DCN NO.
H	SEE REVISION HISTORY	5/27/15	15-00284

Typical performance of 2.5 GHz unit.



NOTE: DIMENSIONS IN BRACKETS ARE EXPRESSED IN MILLIMETERS AND ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMAL .XX ± .01 ANGULAR ± .XXX ± .005 DO NOT SCALE DRAWING	CONTRACT NO.			300 DINO DRIVE ANN ARBOR, MI 48103 TELEPHONE (734) 426-5553 FACSIMILE (734) 426-5557		
	CHECKED ACB	DATE 8/12/02		TITLE: OUTLINE DRAWING, BIAS TEE, SMA CONNECTORS 2.5 & 6.0 GHz, 100 V., 7A 8820SXXZ-YY SERIES		
MATERIAL:	ENGINEERING EA	8/12/02	SIZE A			
FINISH	MANUFACTURING RB	9/6/02	SCALE FULL		RELEASE DATE	SHEET 2 OF 2
SIMILAR TO	WEIGHT (gr)	QUAL. ASSURANCE RFF	MARKETING RG		9/3/02	
					9/6/02	