

# BIAS TEES

SMA, 500 MHz - 2.5 GHz, 100 Volts / 7 AMPS

**RoHS**  
Compliant

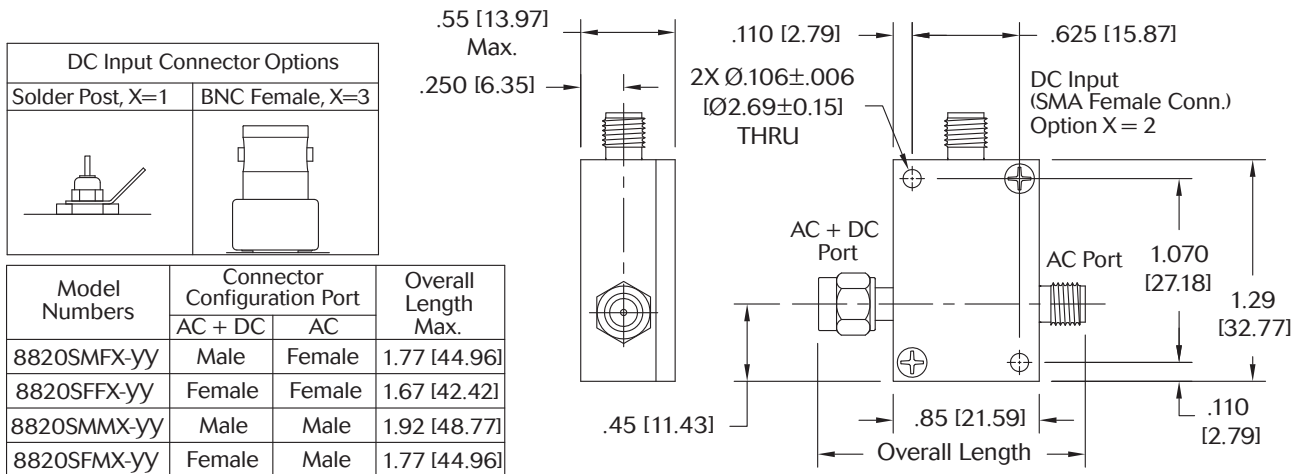
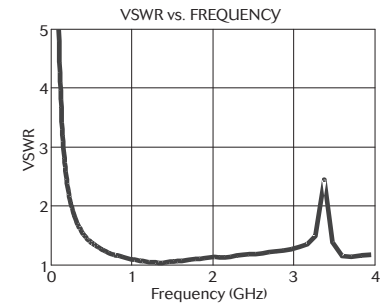
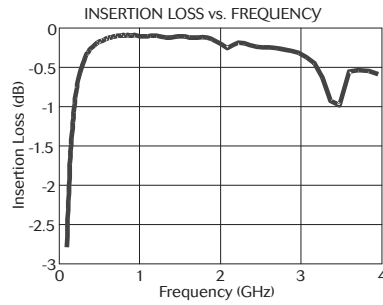
## SPECIFICATIONS:

Models: 8820SMFX-02, 8820SFFX-02, 8820SMMX-02, 8820SFMX-02

<b>Electrical:</b>	
Frequency Range	500 MHz - 2.5 GHz
Insertion Loss	Typical Maximum
500 MHz - 2.5 GHz	0.25 dB 0.50 dB
VSWR	Typical Maximum
500 MHz - 2.5 GHz	1.25:1 1.40:1
Isolation (RF to Bias Port)	> 20dB Typ.
3dB Bandwidth	100 MHz - 3.7 GHz
Impedance	50 Ohms
Bias-Path Resistance	0.008 Ohms Typ., 0.01 Ohms Max.
DC Voltage	100 VDC Max.
DC Current	7 Amps Max.
RF Power	50 Watts Max.
Current Rating vs Temperature	See Graph
<b>Environmental</b>	
Operating Temperature Range	-55°C to +105°C
Storage Temperature Range	-60°C to +90°C
<b>Mechanical:</b>	
SMA Connectors	Passivated Stainless Steel
<small>Mates with MIL-STD-348</small>	
BNC Connectors	Nickel Plated Brass
<small>Mates with MIL-STD-348</small>	
Conductors	Gold Plated Beryllium Copper
Body	Aluminum with Chemical Conversion Coating



Typical performance from 100 MHz - 3.7 GHz



### HOW TO ORDER:

Model Number: **8820SZZX-02**

- Base Number  
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: **8820SMF1-02**  
500 MHz - 2.5 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 and/or use.

8820S: REV F

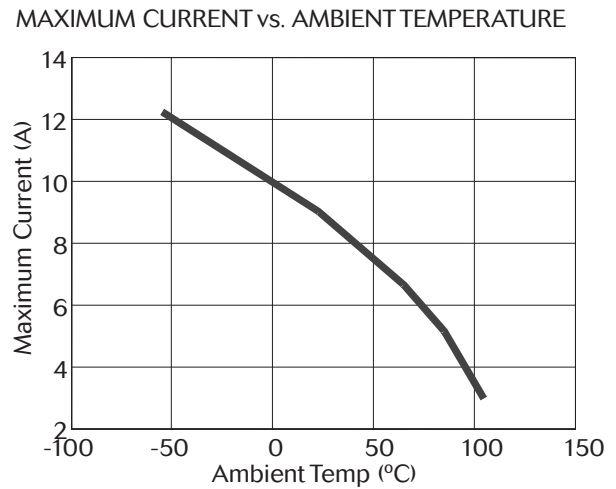
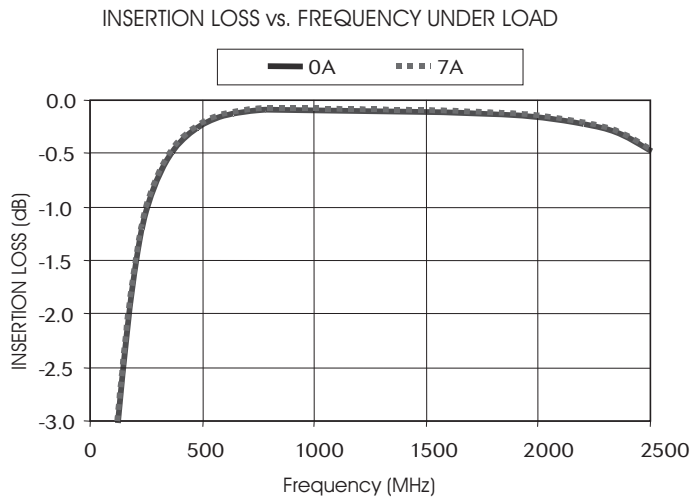
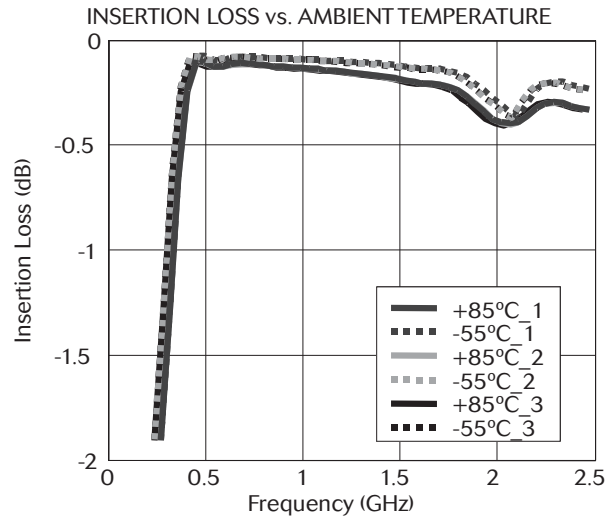
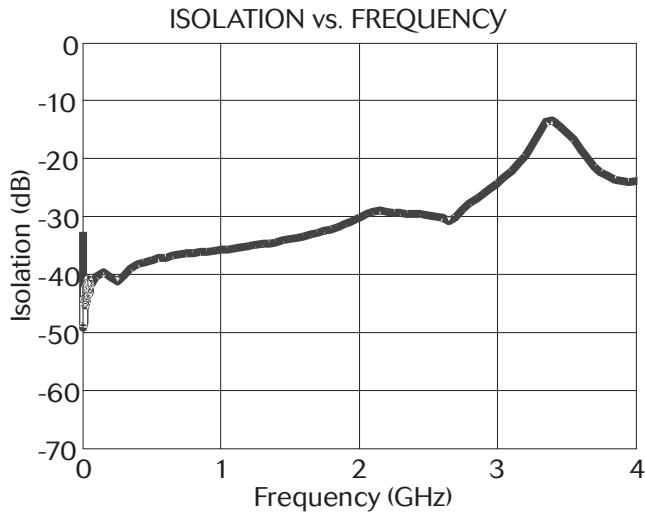


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REVISIONS			
LTR	DESCRIPTION	DATE	DCN NO.
F	SEE REVISION HISTORY	8/7/07	07-00322

ADDITIONAL INFORMATION



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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMAL      ANGULAR .XX ± .01      ± .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 500 MHz - 2.5 GHz, 50 OHM 8820SXXZ-YY SERIES		
	ENGINEERING EA	8/12/02				
	MANUFACTURING RB	9/6/02				
	QUAL. ASSURANCE RFF	9/3/02				
MATERIAL:	MARKETING RG	9/6/02	SIZE A	FSCM NO. 64671	DWG. NO. 8820S	
FINISH			SCALE FULL	RELEASE DATE	SHEET 2 OF 2	