

BIAS TEES

SMA, up to 12 GHz, 100 Volts / 2.5 Amps

RoHS
Compliant

SPECIFICATIONS:

Models: 8800SMFX-yy, 8800SFFX-yy, 8800SMM-yy, 8800SFMX-yy

Electrical:

Frequency Range	10 MHz - 12 GHz	
Standard Freq. Values	2.5, 6 & 12 GHz	
Insertion Loss	Typical	Maximum
10 MHz - 30 MHz	1.00 dB	1.25 dB
30 MHz - 2.5 GHz	0.50 dB	1.00 dB
2.5 - 6 GHz	1.00 dB	1.25 dB
6 - 9 GHz	1.50 dB	2.00 dB
9 - 12 GHz	2.00 dB	3.00 dB
VSWR	Typical	Maximum
30 MHz - 2.5 GHz	1.40:1	1.50:1
2.5 GHz - 4 GHz	1.30:1	1.50:1
4 - 6 GHz	1.40:1	1.50:1
6 - 9 GHz	1.50:1	1.80:1
9 - 12 GHz	1.75:1	2.00:1
Isolation (RF to Bias Port)	> 30dB Typ.	
3dB Bandwidth	5 MHz - 15 GHz	
Impedance	50 Ohms	
Bias-Path Resistance	0.04 Ohms Typ., 0.05 Ohms Max.	
DC Voltage	100 VDC Max.	
DC Current	2.5 Amps Max.	
RF Power	5 Watts Max	
Current Rating vs Temperature	See Graph	

Environmental

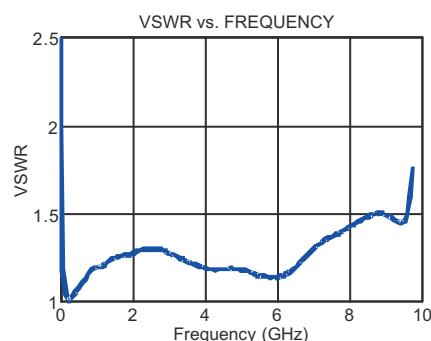
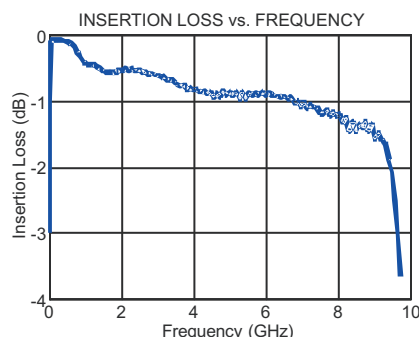
Operating Temperature Range	-55°C to +105°C
Storage Temperature Range	-60°C to +90°C

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

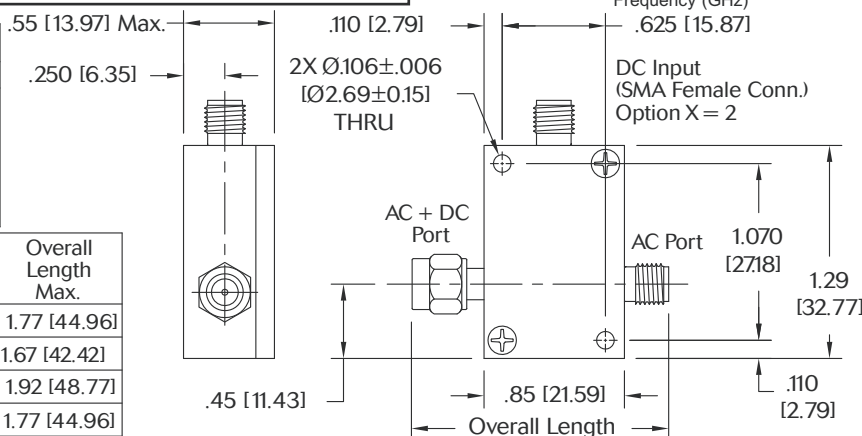
AEROFLEX
A passion for performance.

Typical performance from 5 MHz - 9 GHz



DC Input Connector Options	
Solder Post, X=1	BNC Female, X=3

Model Numbers	Connector Configuration Port		Overall Length Max.
	AC + DC	AC	
8800SMFX-yy	Male	Female	1.77 [44.96]
8800SFFX-yy	Female	Female	1.67 [42.42]
8800SMMX-yy	Male	Male	1.92 [48.77]
8800SFMX-yy	Female	Male	1.77 [44.96]



HOW TO ORDER:

Model Number: **8800SZZX-yy**

Base Number

DC Connector Type

- 1 = Solder Post
- 2 = SMA Female Conn.
- 3 = BNC Female Conn.

Freq. Range
02 = 10 MHz - 2.5 GHz
06 = 10 MHz - 6 GHz
12 = 10 MHz - 12 GHz

Ordering Examples:

Model Number: **8800SFF2-02**
10 MHz - 2.5 GHz, SMA Fem/Fem
SMA Female DC Connector Type

Model Number: **8800SMF1-06**
10 MHz - 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.

8800S: REV F (M)

AEROFLEX
INMET

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PROPRIETARY NOTICE

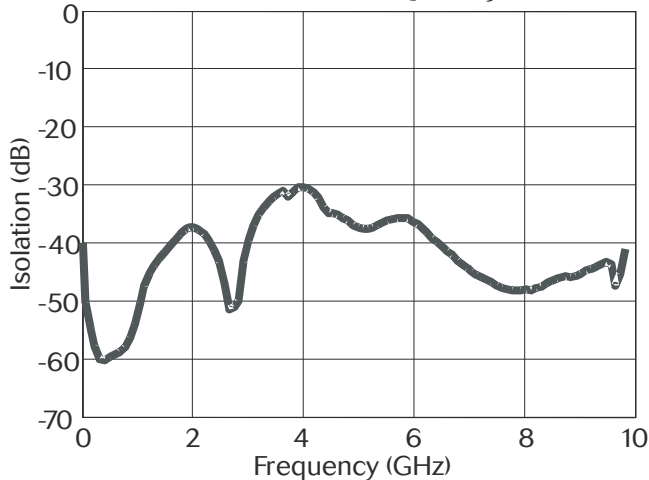
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REVISIONS

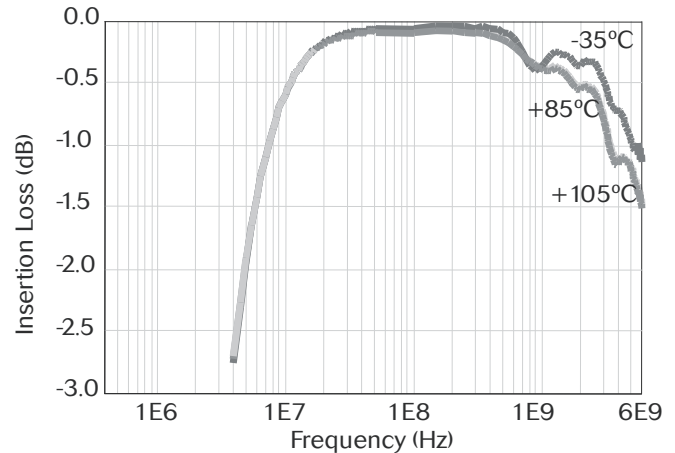
LTR	DESCRIPTION	DATE	DCN NO.
F	SEE REVISION HISTORY	2/27/07	06-00708

ADDITIONAL INFORMATION
Typical performance from 5 MHz - 9 GHz

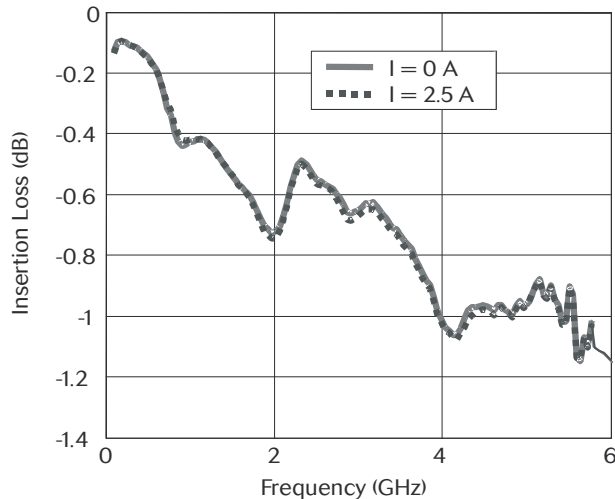
ISOLATION vs. FREQUENCY



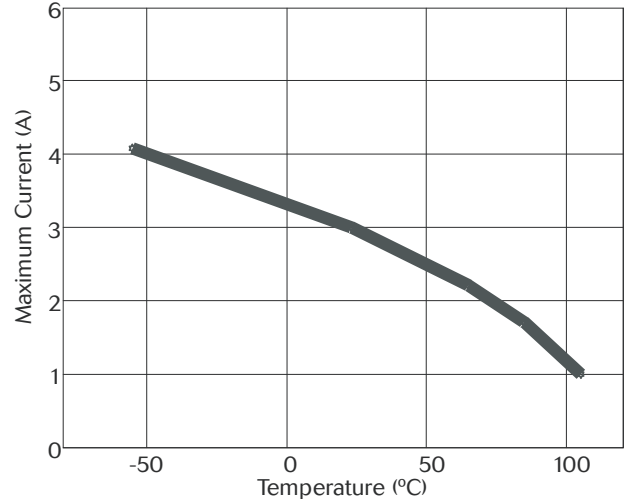
INSERTION LOSS vs. AMBIENT TEMPERATURE



INSERTION LOSS UNDER CURRENT LOAD



MAXIMUM CURRENT vs. AMBIENT TEMPERATURE



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		
MATERIAL:		ENGINEERING EA	8/12/02	TITLE: OUTLINE DRAWING, BIAS TEE, SMA CONNECTORS 10 MHz - 12 GHz, 50 OHM 8800SXXZ-YY SERIES	
		MANUFACTURING RB	9/6/02		
FINISH		QUAL. ASSURANCE RFF	9/3/02	SIZE A	FSCM NO. 64671
		MARKETING RG	9/6/02	DWG. NO. 8800S	
SIMILAR TO	WEIGHT (gr)	SCALE FULL		RELEASE DATE	
				SHEET 2 OF 2	