

BIAS TEES

7/16 DIN

ENVIRONMENTALLY SEALED

500 MHz - 2.5 GHz

100 V. / 7 A.

api 
technologies corp.
> INMET

MODELS: 8821DMFX-02, 8821DMMX-02, 8821DFFX-02, 8821DFMX-02

SPECIFICATIONS:

Electrical:

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 _____ 1.50:1
Isolation (RF to Bias Port) _____ > 20dB Typ.
3dB Bandwidth _____ 150 MHz - 3.5 GHz
Impedance _____ 50 Ohms
Bias-Path Resistance _____ 0.008 Ohms Typ., 0.025 Ohms Max.
DC Voltage _____ 100 VDC Max.
DC Current _____ 7 Amps Max.
RF Power _____ 50 Watts Max.

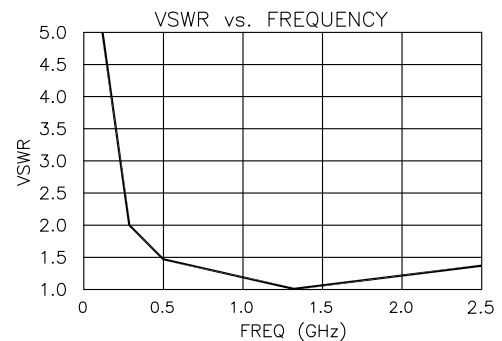
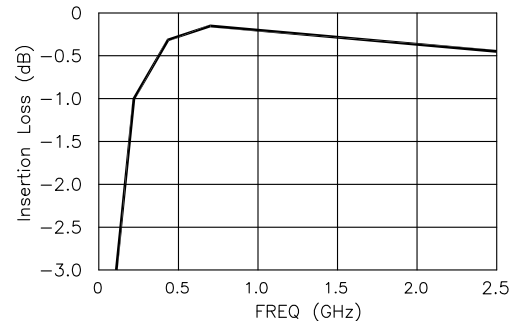
Environmental:

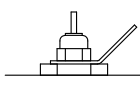
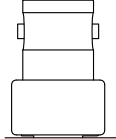
Operating Temperature Range _____ -55°C to +105°C
Storage Temperature Range _____ -60°C to +90°C

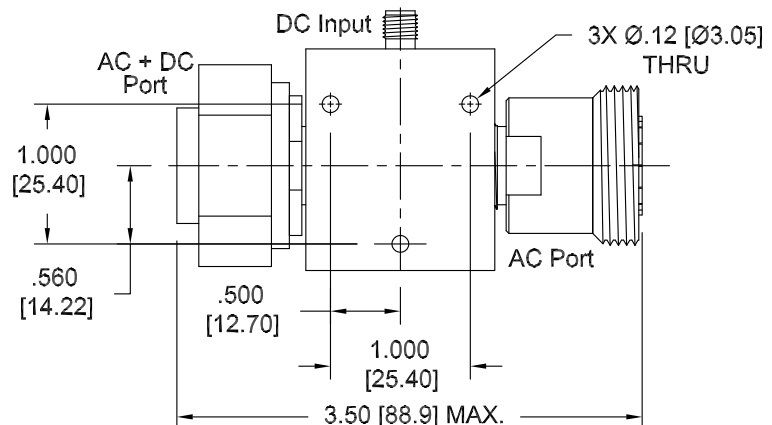
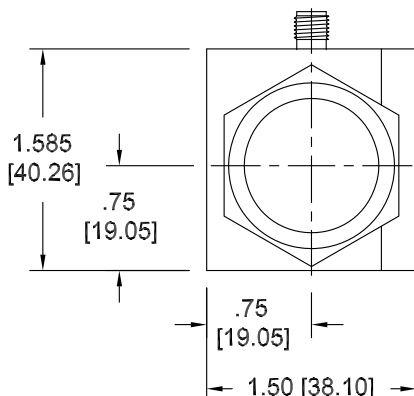
Mechanical:

7/16 DIN Connectors _____ Silver or White Bronze
Mates with DIN 47 223 _____ Plated Brass
SMA Connectors _____ Passivated Stainless Steel
Mates with MIL-STD-348 _____
BNC Connectors _____ Nickel Plated Brass
Mates with MIL-STD-348 _____
Conductors _____ Gold, Silver or White Bronze
Plated Beryllium Copper
Body _____ Aluminum with Chemical Conversion Coating

Typical performance from 125 MHz - 2.5 GHz
INSERTION LOSS vs. FREQUENCY



Model Numbers	Connector Configuration Port		DC Input Connector		
	AC + DC	AC	Solder Post, X=1	SMA Female, X=2	BNC Female, X=3
8821DMFX-02	Male	Female		AS Shown Below	
8821DFFX-02	Female	Female			
8821DMMX-02	Male	Male			
8821DFMX-02	Female	Male			



HOW TO ORDER:

Model Number: **8821DYYX-02**

Base Number _____

DC Connector Type

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

Ordering Examples:

Model Number: **8821DFF2-02**

500 MHz - 2.5 GHz, DIN 7/16 Fem/Fem
SMA Female 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.

8821D; REV D

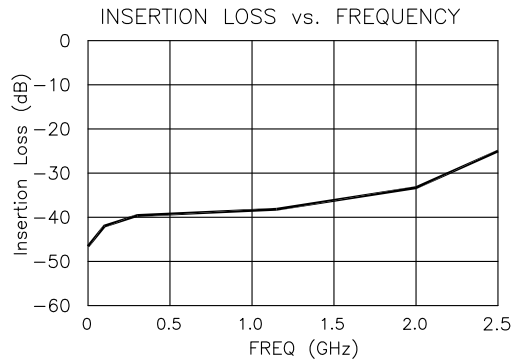
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REVISIONS

LTR	DESCRIPTION	DATE	DCN NO.
D	SEE REVISION HISTORY	6/15/10	10-00179



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.		api  technologies corp. INMET 300 DINO DRIVE ANN ARBOR, MI 48103 TELEPHONE (734) 426-5553 FACSIMILE (734) 426-5557		
		CHECKED	DATE			TITLE: OUTLINE DRAWING, BIAS TEE 500 MHz – 2.5 GHz, 100 V, 7 A 7/16 DIN CONN, ENVIRONMENTAL SEAL MODEL 8821DXYZ-02
		EJM	3/31/05			
		ENGINEERING	3/30/05			
MATERIAL:		TK				
		MANUFACTURING				
FINISH		RB	4/8/05	SIZE	FSCM NO.	DWG. NO.
		QUAL. ASSURANCE		A	64671	8821D
SIMILAR TO	WEIGHT (gr)	JBM	4/6/05			
		MARKETING		SCALE	3/4	RELEASE DATE
		NH	4/11/05			