Bias Tees
Type N

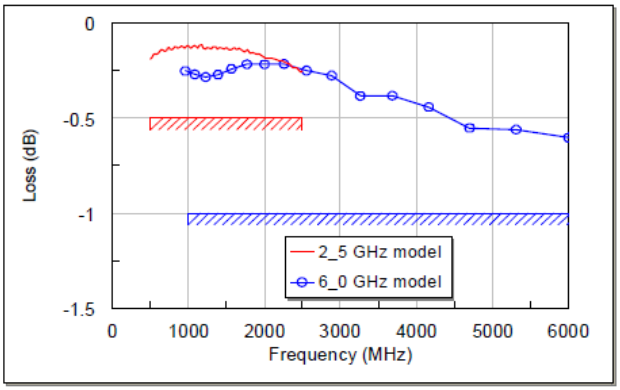
Up to 6 GHz

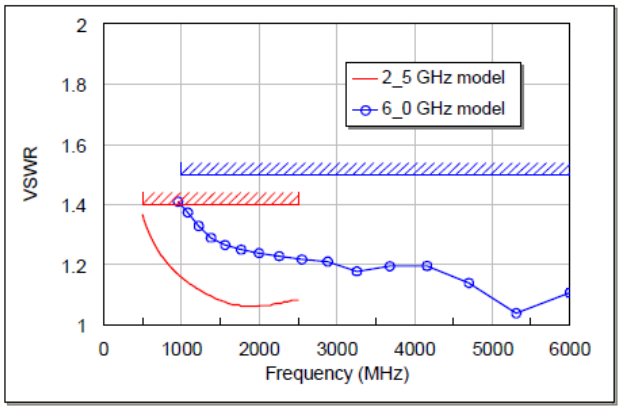
MODELS: 8820NMFX-ZZ, 8820NFFX-ZZ, 8820NMMX-ZZ, 8820NFMX-ZZ

Technical Specifications

Parameter	Value
Electrical	
Frequency Range 8820NXXY-02 8820NXXY-06	 500 MHz – 2.5 GHz 1 – 6 GHz
Insertion Loss 8820NXXY-02 8820NXXY-06	 0.50 dB 1.00 dB
VSWR 8820NXXY-02 8820NXXY-06	 1.40:1 max. 1.50:1 max.
Isolation (RF to Bias Port)	> 20 dB typ.
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. Temp.	See graph
Mechanical	
Type N & SMA Connectors Mates with MIL-STD-348	Passivated Stainless Steel
Conductors	Gold Plated Beryllium Copper
Body	Aluminum w/ chemical conversion coating
Environmental	
Operating Temp. Range	-55°C to +105°C
Storage Temp. Range	-60°C to +90°C

Typical performance of 2.5 and 6.0 GHz units.





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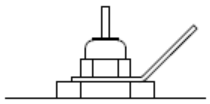
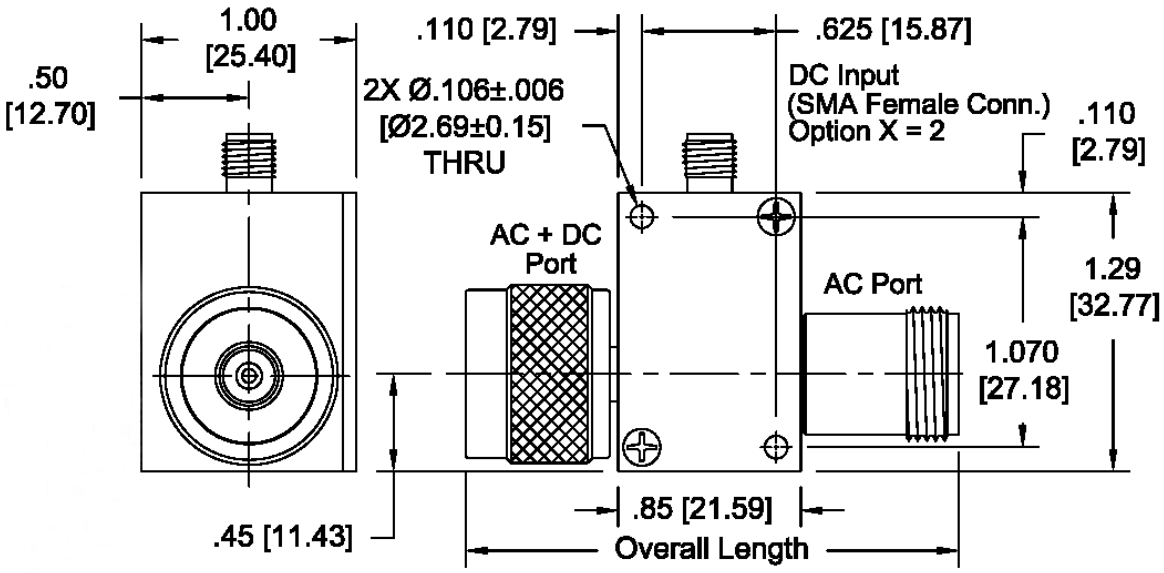
Approved for Release: November 2024/Brown

DC Input Connector Option
Solder Post, X = 1



Model Numbers	Connector Configuration Port		Overall Length Max.
	AC + DC	AC	
ZZ8820NMFX-YY	Male	Female	2.35 [59.69]
8820NFFX-ZZ	Female	Female	2.40 [60.96]
8820NMMX-ZZ	Male	Male	2.30 [58.42]
8820NFMX-ZZ	Female	Male	2.35 [59.69]



How To Order

Model #: 8820NXXY-ZZ

- Model Number
- DC Connector Type
  - 1 = Solder post
  - 2 = SMA female conn.
- Freq. Range
  - 02 = 500 MHz – 2.5 GHz
  - 06 = 1 – 6 GHz

Order Examples

Model number: 8820NFF2-02
500 MHz – 2.5 GHz, Type N, Fem/Fem
SMA Female DC Connector Type

Model number: 8820NMF1-06
1 – 6 GHz, Type N, Male/Fem
Solder post DC Connector Type

**Dimensions in brackets are expressed in millimeters and are for reference only.

Additional Information

Typical performance of 2.5 GHz Model