Key Features



- Wide Band, 10 MHz ~ 3.0 GHz
- Low Insertion Loss, 0.30 dB Typ.
- 1.22:1 VSWR
- 3000 mA DC Current Handling
- 30 W CW Power Handling
- · Precision Machined Housing
- Single DC Power Supply
- Meet MIL-STD-202g

Applications

- Up to 3.0 GHz Band
- Satellite Communications
- Broadcast
- RF Bench Tests
- Mobile Base Station Applications



Absolute Maximum Ratings

Parameters	Units	Ratings
DC Voltage	V	50
DC Current	mA	3000
Input Power, CW	W	30
Storage Temperature	°C	-40 ~ +85
Operating Temperature	°C	-40 ~ +85

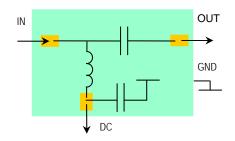
Note: Heat sink is required for high power applications!

Specifications

Summary of the key electrical specifications at 25°C

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Index	Testing Item	Symbol	Test Constraints	Min	Тур	Max	Unit	
1	Frequency Range	BW	50 Ohm Impedance	0.01		3.0	GHz	
2	Insertion Loss	S ₂₁	0.01 – 3.0 GHz		0.3	1.0	dB	
3	VSWR	SWRi	0.01 – 3.0 GHz		1.22:1	1.5:1	Ratio	
4	Isolation, RF to DC Port		0.01 – 3.0 GHz		45		dB	
5	Maximum Power Handling	P _{MAX}	0.01 – 3.0 GHz, CW			30	W	
6	Maximum DC Voltage	V_{DCMAX}				50	V	
7	Maximum DC Current	I _{DCMAX}				3000	mA	
8	Operating Temperature	T _o		-40		+85	°C	

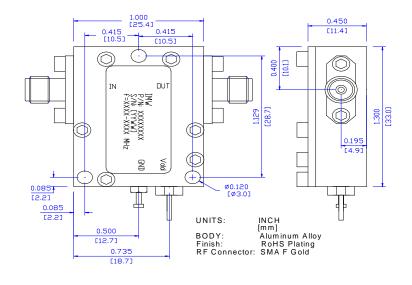
Functional Block Diagram



Ordering Information

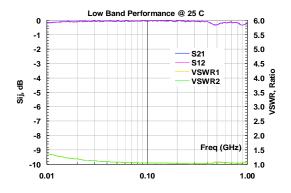
Model	Conne	ectors
Number	IN	OUT
IBT30A	SMA Female	SMA Female

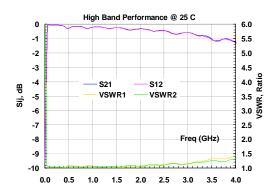
Outline, IP-3 Housing



E-mail: sales@infinitimw.com

Typical Data





Application Notes:

A. SMA Torque Wrench Selection

Always use a torque wrench with $5 \sim 6$ inch-lb coupling torque setting for mating the SMA cables to the amplifier. Never use torque more than 8 inch-lb wrench for tightening the mating cable to the connector. Otherwise, the permanent damage will occur to the SMA connectors of the amplifier. 8710-1582 (5 inch-lb) is one of the ideal torque wrench choice from Agilent Technology.

B. Mounting the Amplifier

Use three pieces of #2-56 with longer than 9/16" screws for mounting the amplifier on a metal-based chase. Flat and spring washers are needed to prevent the screw loosening during the shock and vibration. Always use the appropriate torque setting of the power screwdriver to mount them.
