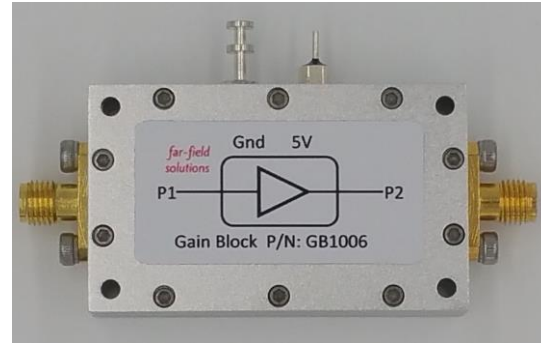


Description

GB1006 is a compact coaxial broadband microwave amplifier (Gain Block) for general purpose applications such as Lab, RF Bench, ATE Systems, Data, Communications. It is housed in a machined aluminum enclosure and features SMA-F connector at input and output port, and a feedthrough for DC supply.



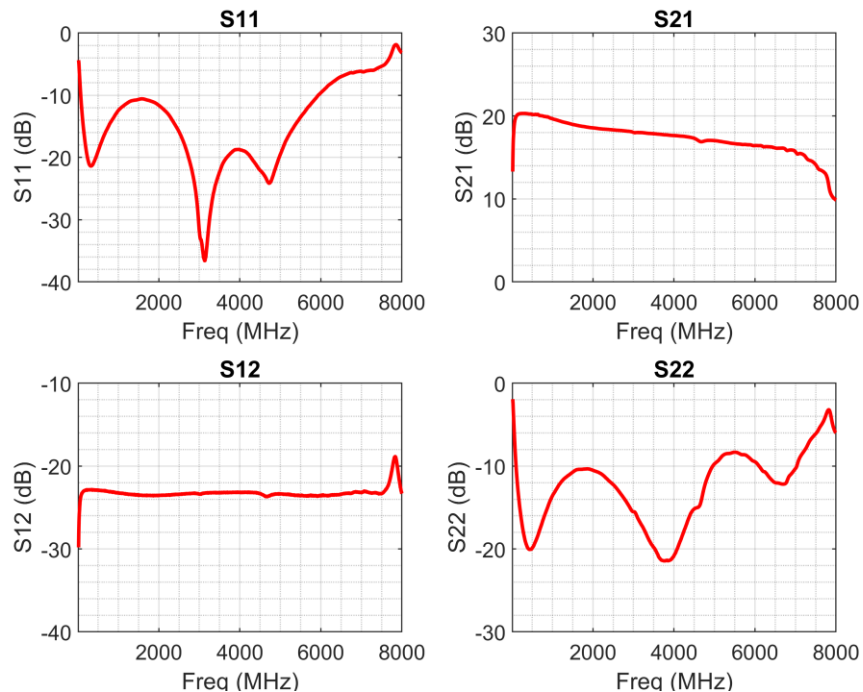
Specifications

Frequency	50MHz to 6GHz
Gain	15-19dB
Compression	19dBm at 900MHz
Noise Figure	~4.5dB
Supply	5VDC (~50mA)
Connector	SMA-F

Absolute Maximum Rating

Parameter	Value	Unit
Supply	6	V
Input Power	10	dBm
Temperature	85	C

S-Parameter Plots



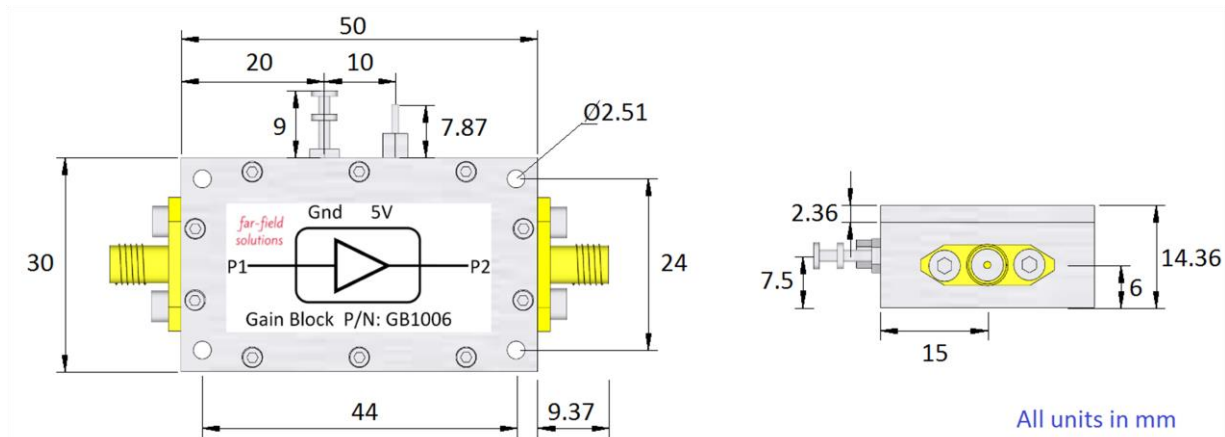
S-Parameter Table

Frequency	Input RL S11 (dB)	Gain S21 (dB)	Reverse Iso S12 (dB)	Output RL S22 (dB)
50	-7.52	18.44	-24.72	-5.03
100	-12.47	19.89	-23.27	-9.79
500	-19.06	20.19	-22.90	-19.90
1000	-12.47	19.67	-23.23	-13.60
2000	-11.62	18.56	-23.54	-10.51
3000	-31.75	18.02	-23.39	-15.52
4000	-18.77	17.65	-23.19	-20.81
5000	-19.48	17.03	-23.34	-9.73
6000	-9.60	16.44	-23.59	-9.47
7000	-6.17	15.68	-23.18	-10.29
8000	-3.18	9.86	-23.33	-5.99

Note 1: Data measured from a typical part

Note 2: RL = Return Loss, Iso = Isolation

Package Drawing



All units in mm