

MODEL NUMBER: **PA40G**

BROADBAND AMPLIFIER, 18 TO 40 GHZ, 40 DB GAIN, 3 DB NOISE FIGURE



DESCRIPTION:

Model PA40G is a broadband benchtop low noise amplifier with a typical small signal gain of 40 dB and a nominal noise figure of 3 dB across the frequency range of 18 to 40 GHz. The power supply required is a single phase AC voltage in the range of 100 to 240 VAC, which can be supplied by a wall outlet. The LED light helps to indicate the working status of the amplifier. The input and output port configurations are female K connectors.

FEATURES:

- Ultra-Broadband Coverage
- Good Gain Flatness

APPLICATIONS:

- Bench Top Power Amplification
- Antenna Range
- Power Boosting

ELECTRICAL SPECIFICATIONS:

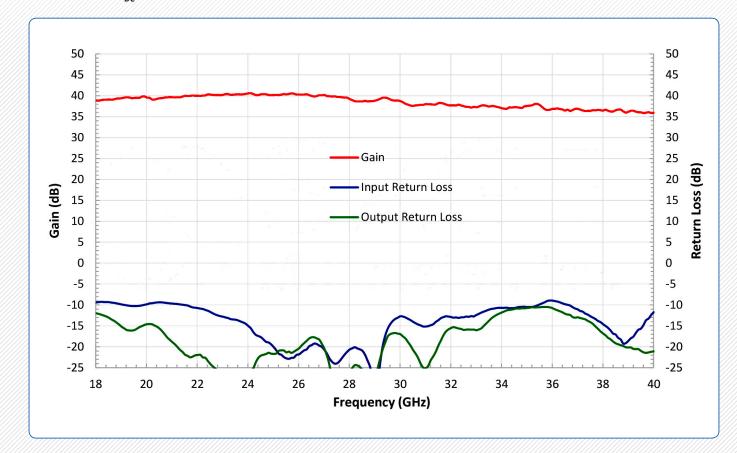
PARAMETER	MINIMUM	TYPICAL	MAXIMUM
Frequency	18 GHz		40 GHz
Gain		40 dB	
Noise Figure		3 dB	
P _{1dB}		+10 dBm	
RF Input Damage Level			-20 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
Power Supply (AC Adapter Provided)	100 V _{AC}		240 V _{AC}
Specification Temperature		+25 °C	
Case Temperature	0 ° C		+50 °C

MECHANICAL SPECIFICATIONS:

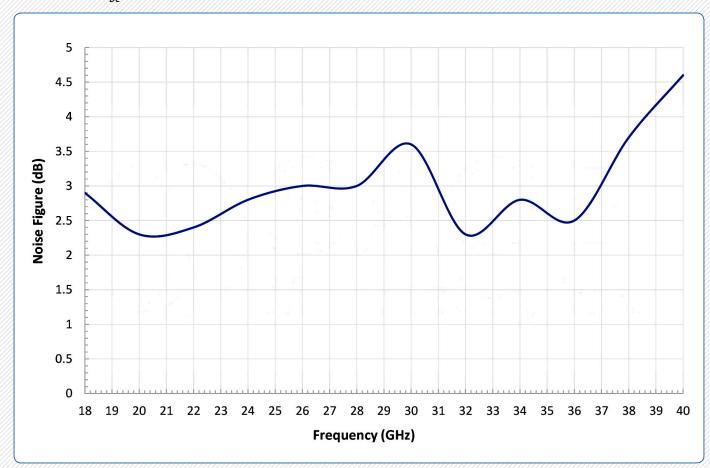
ITEM	SPECIFICATION	
Input Port	K(F)	
Output Port	K(F)	
DC Bias Port	2.5 mm DC Jack (AC-to-DC power converter included)	
DC Bias Switch	On-Off Rocker Switch with Indicator Light	
Enclosure Material	Extruded Aluminum	
Finish	Black Anodized	
Weight	1.5 lbs	
Size	3.22" (W) x 4.12" (L) x 1.74" (H)	
Outline	TB-SC	

TYPICAL GAIN AND RETURN LOSS VS. FREQUENCY

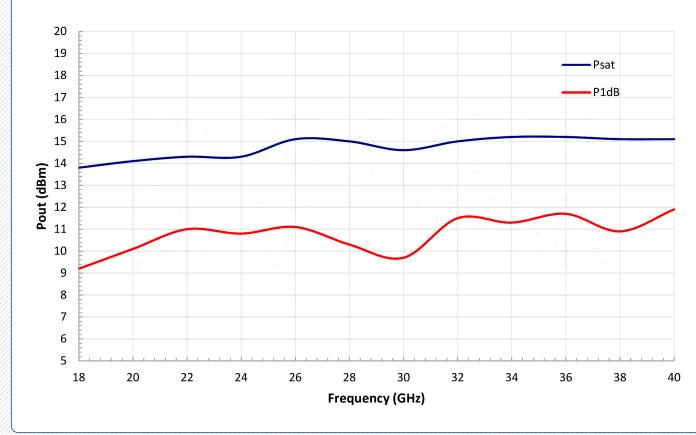
BIAS: +8 Vpc /200 MA



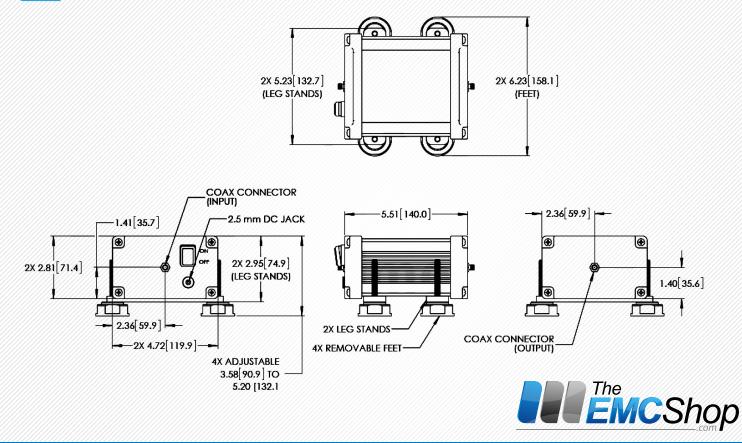
TYPICAL NOISE FIGURE VS. FREQUENCY BIAS: +8 V_{pc} /200 MA



TYPICAL OUTPUT POWER VS. FREQUENCY BIAS: +8 V_{pc}/200 MA



MECHANICAL OUTLINE: (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS])



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