

RF AMPLIFIER

Available as: QB-300-02, Outline Drawing with SMA Connectors (080-22517)

MODEL QB-300-02

Features

- High Gain: 23 dB Typical
- High Power: +22 dBm Typical
- Operating Temp. -54 °C to +71 °C
- Environmental Screening Available

Specifications

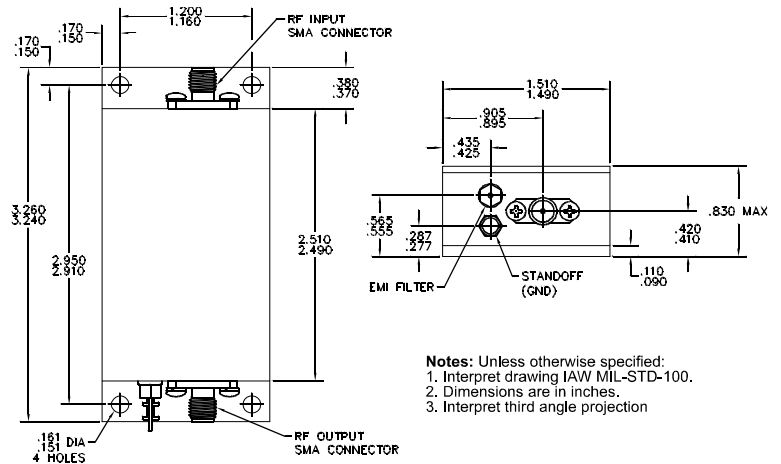
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -54 °C to +71 °C
Frequency	1 - 300 MHz	1 - 300 MHz
Gain (dB)	23 ± 1.0	—
Gain vs. Temperature	—	+0.5/ -0.6 Max.
Gain Flatness	1.0	—
Reverse Isolation (dB)	-36	—
VSWR In	1.5:1	—
VSWR Out	1.5:1	—
1 dB Compression (dBm)	+22	—
Output Intercept point		
3rd Order	+37	—
2nd Order	+52	—
Noise Figure (dB)	3.8	—
Power Vdc	+20	+20 volts Max
mA	154	

Note: Specifications and warranty are guaranteed when tested only in a 50 Ohm system. Specifications indicated as typical are not guaranteed.

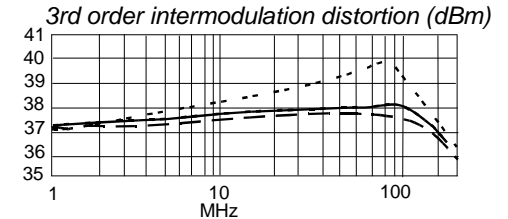
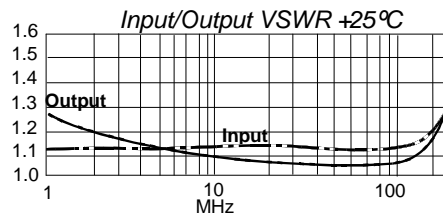
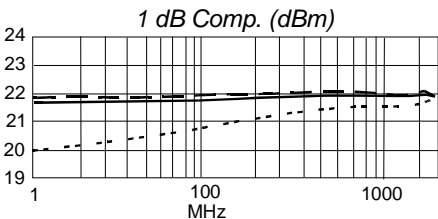
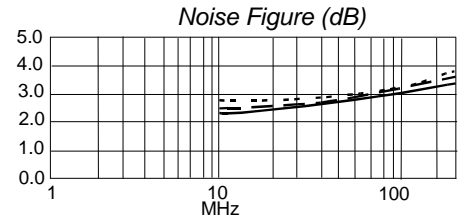
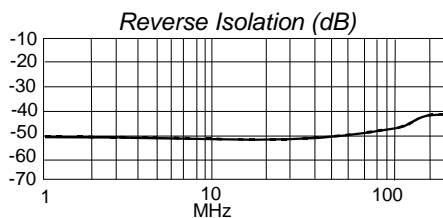
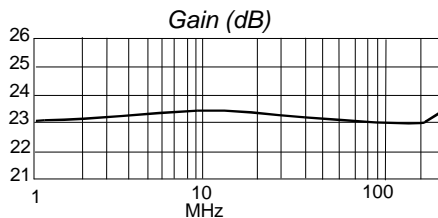
Absolute (NO DAMAGE) Maximum Ratings

Ambient Operating Temperature -54°C to +71 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +21 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Revision March 16, 2015



Typical Performance Data



Legend ——— +25 °C - - - +71 °C - - - - - -54 °C



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