

RF AMPLIFIER

MODEL QB-188-06

Available as: QB-188-06 (080-22507-0001)

Features

- "Power Feedback" with Isolation > 29 dB
- High Dynamic Range
- Typical $OIP_3 = 40$ dBm, $OIP_2 = 56$ dBm
- Overdrive Protection

Specifications

CHARACTERISTIC	TYPICAL $T_a = 25^\circ\text{C}$	MIN/MAX $T_a = +25^\circ\text{C}$
Frequency	0.5 - 100 MHz	0.5 - 80 MHz
Gain (dB)	15.3	15.0 ± 1.0
Gain vs. Temperature	$+0.2 / -0.2$	$+0.3 / -0.3$
Gain Flatness	± 0.15	± 0.25 Max.
Reverse Isolation (dB)	35	29
VSWR		
In	1.2:1	1.5:1 Max.
Out	1.3:1	1.5:1 Max.
1 dB Compression (dBm)	+22.2	+22 Min.
Output Intercept Point (dBm)		
3rd Order	40.5	40 Min.
2nd Order	56.0	50 Min.
Noise Figure ² (dB)	3.1	3.2 Max.
Power ¹		
Vdc	+15	+15
mA	85	100 Max.

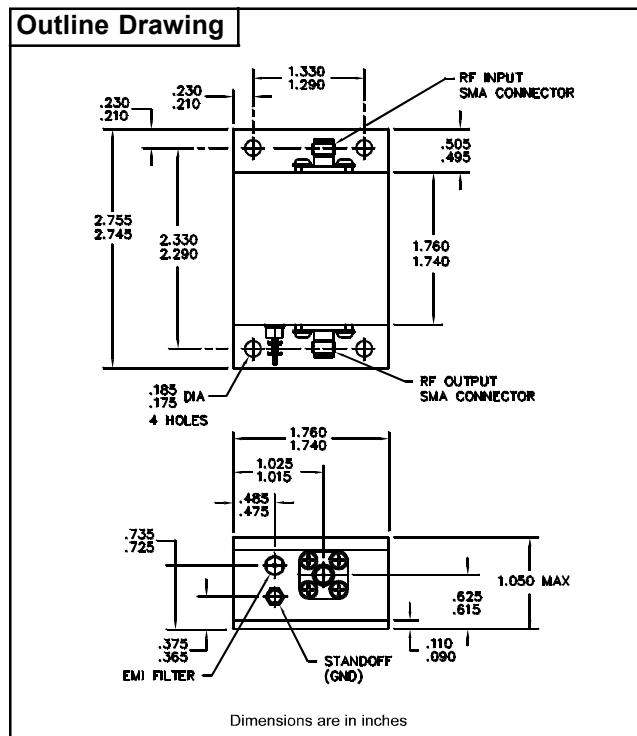
Notes:

1. All specification ratings are based on measurements in a 50 Ohm system with a DC supply voltage tolerance of $\pm 1\%$.
2. Noise figure not tested below 10 MHz.
3. RF output terminated into 50 Ohms.

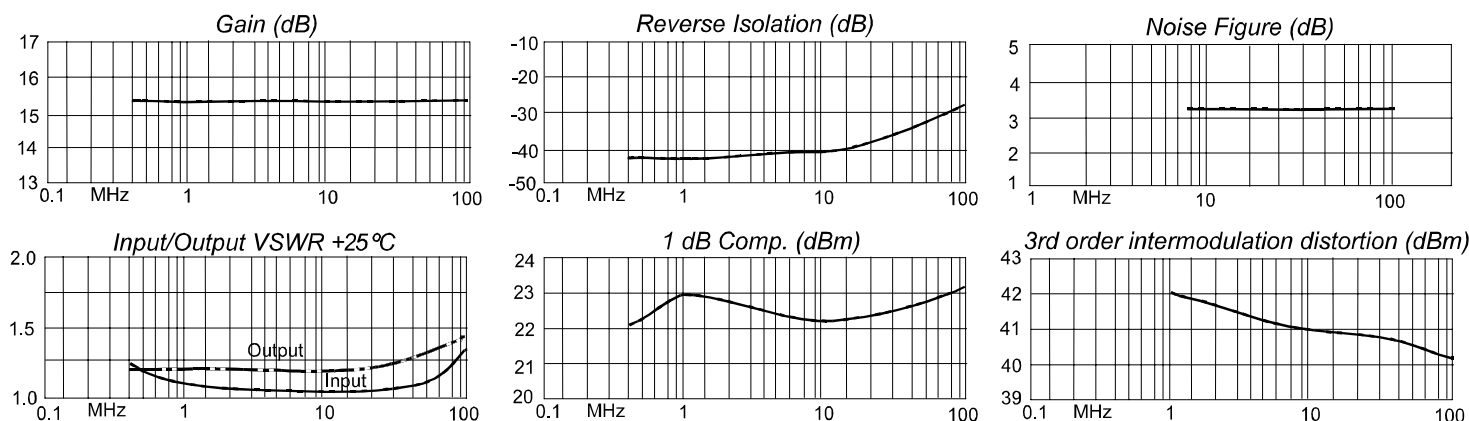
Absolute Maximum (No Damage) Ratings

Operating Temperature -55°C to $+71^\circ\text{C}$
 Storage Temperature -65°C to $+125^\circ\text{C}$
 DC Voltage +16 Volts
 RF Input Power (CW)³ +20 dBm

Outline Drawing



Typical Performance Data



Legend ——— +25 °C



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