

RF AMPLIFIER

MODEL QB-933

Available as: QB-933, SMA Connectorized Housing

Features

- Medium Gain: 12.2 dB Typical
- High Output Power: +39 dBm Typical
- High Third Order Intercept: +65 dBm Guaranteed
- High Second Order Intercept: +95 dBm Guaranteed
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	GUARANTEED Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 450 MHz	50 - 450 MHz
Gain (dB)	12.0	11.0 Min.
Power @ 1 dB Comp. (dBm)	+39	+38 Min.
Reverse Isolation (dB)	17 Min.	17 Min.
VSWR In	1.9:1	2.0:1 Max.
Out	1.9:1	2.0:1 Max.
Output Intercept Point: 2nd Order	+95	+90 Min.
3rd Order	+65	+63 Min.
Noise Figure (dB)	6	8 Max.
Power Vdc	+28	+28
m A	1600	1700 Max.

Note: Care should always be taken to effectively ground the case of each unit.

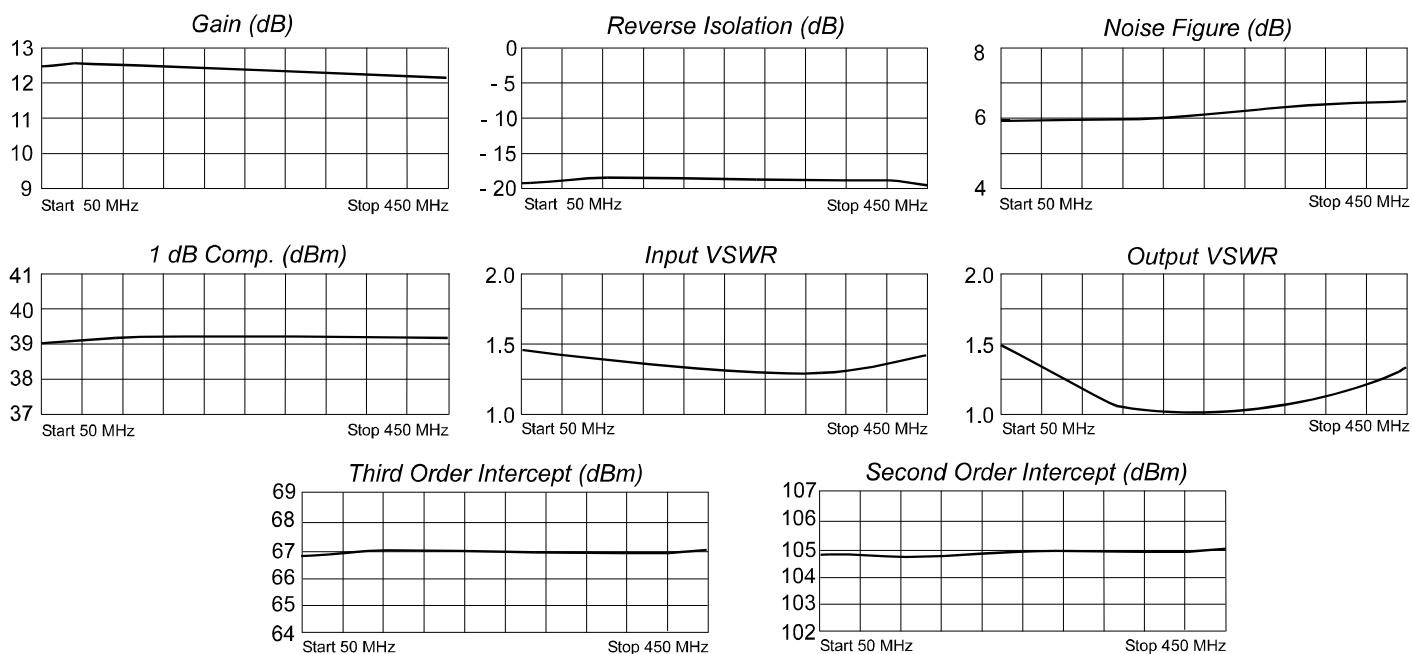
Typical Intermodulation Performance at 25 °C

Second Order Two Tone Intercept Point.....+105 dBm (Typ.)
Third Order Two Tone Intercept Point.....+67 dBm (Typ.)

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -45°C to +100 °C
Storage Temperature -50°C to +125 °C
Case Temperature +125 °C
DC Voltage +30 Volts
Continuous RF Input Power +26 dBm
Short Term RF Input Power +28 dBm (1 Minute Max.)
Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C



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