RF AMPLIFIER
MODEL *QBS-545*

Available as: QBS-545, SMA Connectorized Housing

Features

- High Output Power: +46 dBm Typical
- High Third Order Intercept: +55 dBm Typical
- High Second Order Intercept: +76 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	30 - 512 MHz	30 - 512 MHz
Gain (dB)	19	17 Min.
Power @ 1 dB Comp. (dBm)	+46	+44 Min.
Reverse Isolation (dB)	29	25 Min.
VSWR In Out	1.5:1 2.8:1	2.0:1 Max. 3.0:1 Max.
Noise Figure (dB)	5.5	6.5 Max.
Power Vdc m A	+24 4500	+24 5000 Max.

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

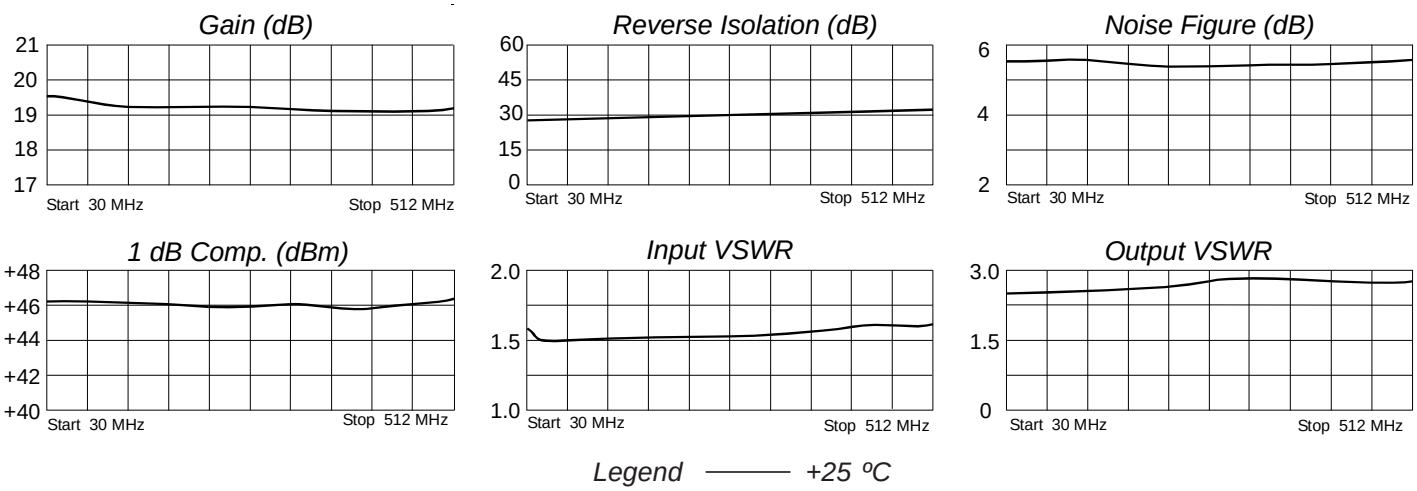
Typical Intermodulation Performance at 25 ºC

Second Order Harmonic Intercept Point.....+80 dBm (Typ.)
Second Order Two Tone Intercept Point.....+76 dBm (Typ.)
Third Order Two Tone Intercept Point.....+55 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature .....-55ºC to +125 ºC
Storage Temperature .....-62ºC to +150 ºC
Case Temperature .....+125 ºC
DC Voltage .....+28 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.)

Typical Performance Data



Legend ——— *+25 ºC*

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