

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 °C	MIN/MAX Ta = -55 °C to +85 °C
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	1.5:1	2.0:1 Max.
Out	2.8:1	3.0:1 Max.
Noise Figure (dB)	5.5	6.5 Max.
Power Vdc	+24	+24
m A	4500	5000 Max.

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

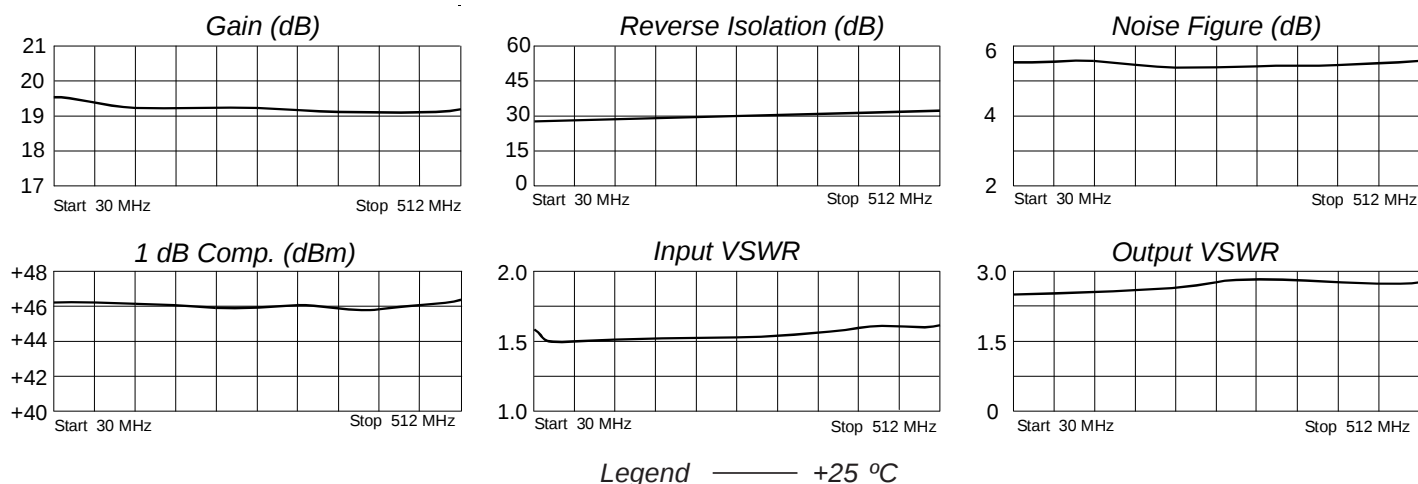
Typical Intermodulation Performance at 25 °C

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 -55°C to +125 °C
 Storage Temperature -62°C to +150 °C
 Case Temperature +125 °C
 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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev.
7/8/10

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001