

RF AMPLIFIER

MODEL QBH-1424

Available as: QBH-1424, 4 Pin TO-8 (T4)
 QBH-5024, 4 Pin Surface Mount (SM3)
 QBH-9-1424, SMA Connectorized Housing

Features

- Superior Phase Noise Performance
- Replaces Competitor's "1024" Design
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 1000 MHz	10 - 1000 MHz
Gain (dB)	13.0	12.0 Min.
Gain Flatness (dB)	± 0.75	± 0.75 Max.
Power @ 1 dB Comp. (dBm) (10-500 MHz)	26.0	24.0 Min.
(500-1000 MHz)	24.0	21.5 Min.
Reverse Isolation (dB)	-17	-15 Max.
Noise Figure (dB)	5.5	7.0 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Power Vdc	+15	+15
mA	155	175 Max.

Typical Intermodulation Performance at 25 °C

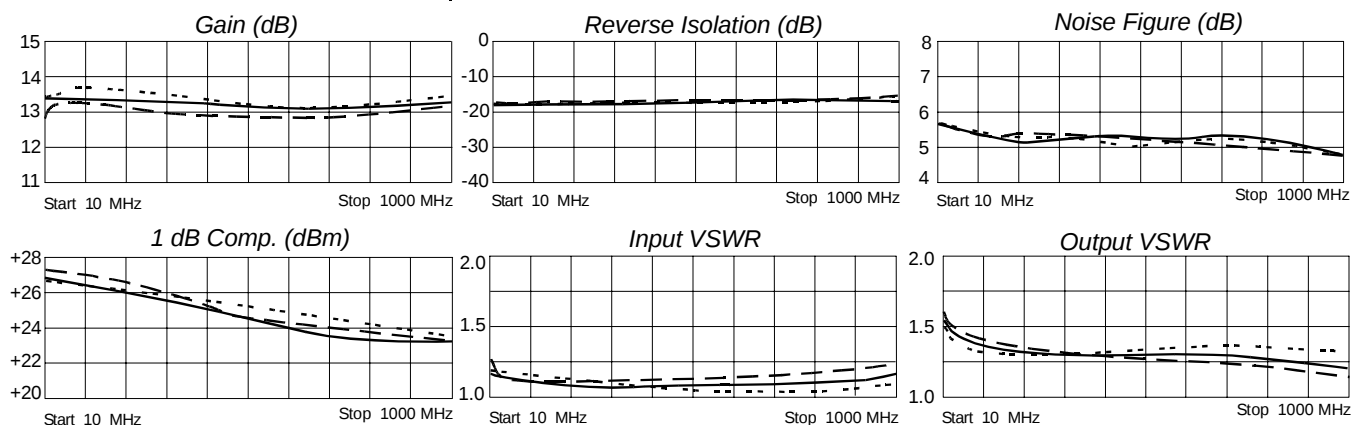
Second Order Harmonic Intercept Point +45 dBm (Typ.)
 Second Order Two Tone Intercept Point +39 dBm (Typ.)
 Third Order Two Tone Intercept Point +32 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 17 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.1 Watt (3 µsec Max.)

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

Typical Performance Data



Legend ——— + 25 °C - - - + 85 °C -55 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 06/29/06

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