RF AMPLIFIER
MODEL QBH-2830

Features

- High Gain: 34.5 dB Typical
- High Power: +30 dBm Typical
- **Replaces Discontinued Modular Amplifiers**

Specifications

CHARACTERISTIC		TYPICAL Ta= 25 ºC	MIN/MAX Ta=+25 ºC
Frequency		5 - 200 MHz	5 - 200 MHz
Gain (dB)(f = 100 MHz)		34.5	34.5 Min/ 35.5 Max.
Gain vs. Temperature		—	—
Gain Flatness		± 0.5	± 1.0 Max.
Reverse Isolation (dB)		—	—
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
1 dB Compression (dBm)		+30	+28 Min.
3rd Order Intercept (dBm)		+46	+44 Min.
Noise Figure (dB)		4.7	5.5 Max.
Power	Vdc	+24	+24
	mA	300	330 Max.

Notes:

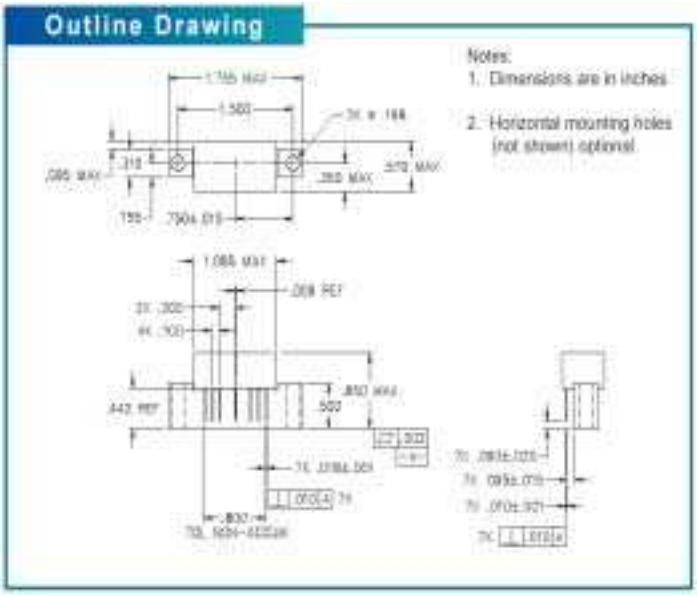
1. Maximum operating temperature is defined as that temperature which, if exceeded for extended periods, could result in premature unit failure. This data is provided for user reliability information. This may or may not represent the maximum temperature for electrical parameter specifications.

2. Specifications are guaranteed when tested in a 50 Ohm system. Specifications indicated as typical are not guaranteed.

Absolute Maximum Ratings

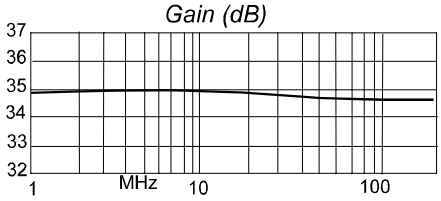
Ambient Operating Temperature ..... -20 ºC to +100 ºC
Storage Temperature ..... -40 ºC to +100 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +28 Volts
Continuous RF Input Power ..... +5 dBm
Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.1 Watt (3 µsec Max.)

Outline Drawing

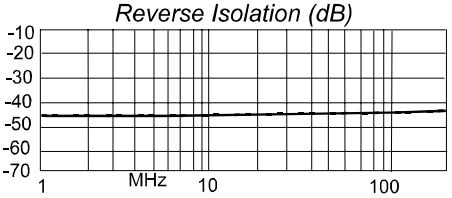


Typical Performance Data

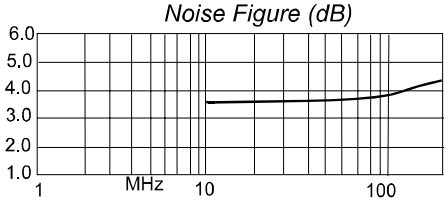
Gain (dB)



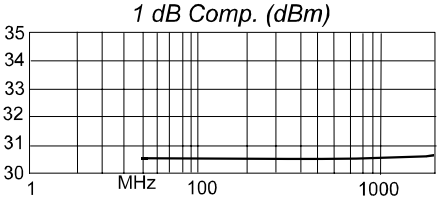
Reverse Isolation (dB)



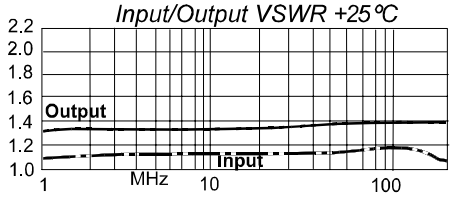
Noise Figure (dB)



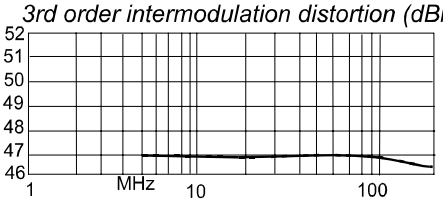
1 dB Comp. (dBm)



Input/Output VSWR +25ºC



3rd order intermodulation distortion (dBm)



Legend ——— + 25 ºC

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