

RF AMPLIFIER

Available as: QBH-2832-04, 080-22567-0001
QBH-2832-04LF (RoHS Compliant)

MODEL QBH-2832-04

Features

- High Gain: 35.5 dB Typical
- High Power: +33 dBm Typical
- Replaces Old Motorola "2832" Design

Specifications²

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta=+25 °C
Frequency	1 - 200 MHz	1 - 200 MHz
Gain (dB)	35.5	34 Min/ 37 Max.
Gain vs. Temperature	—	—
Gain Flatness	±0.5	± 1.0 Max.
Reverse Isolation (dB)	45	—
VSWR	In 1.5:1 Out 1.5:1	2.0:1 Max. 2.0:1 Max.
1 dB Compression (dBm)	+33	+31 Min.
3rd Order Intercept (dBm) (Measured at 100 MHz)*	+44	+43 Min.
Noise Figure (dB)	4.5	6.0 Max.
Power	Vdc +28 mA 435	+28 470 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. Min/Max specifications are guaranteed when tested in a 50 Ohm system.
3. *IP3 performance at 200 MHz, 4 dB lower.

Revision July 12, 2023

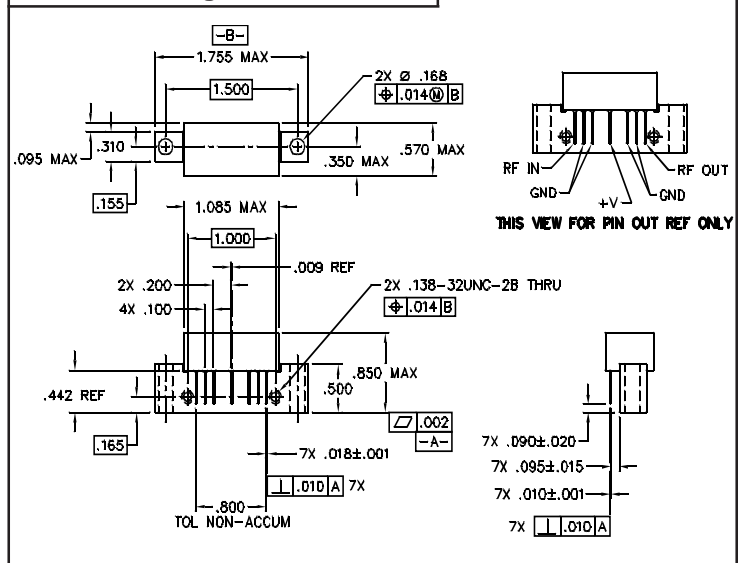
ECN: IP3 performance revision.

(Was +45 dBm Min. over the band, now measured only at 100 MHz with a +43 dBm Min guarantee.)

Absolute Maximum (No Damage) Ratings

Operating Temperature¹ -20 °C to +90 °C
Storage Temperature -40 °C to + 100 °C
DC Voltage + 30 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: 080-22567-0001



Typical Performance Data

