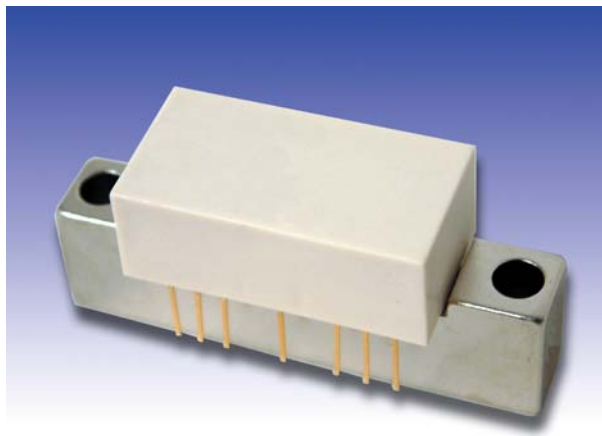


# Linear Amplifier Module

## QBH-2832



The QBH-2832 is a form, fit and function (F<sup>3</sup>)\* replacement for modular amplifiers in the 1 to 200 MHz frequency range, many of which are no longer available. Engineers can continue to build their designs using the QBH-2832, in place of discontinued models with no change in performance or design layout. Typical performance parameters of the QBH-2832, based on a 50 ohm system, are 4.5 dB noise figure, a gain of 35.5 dB, an output power of 2 Watts, and a third order intercept point of +48 dBm. Designed with the latest transistors and components, the QBH-2832 will be available to support users well into the future.

\* - Horizontal mounting holes (not shown above) optional.

### FEATURES

- (F<sup>3</sup>)\* replacement for discontinued modular amplifiers
- 1 to 200 MHz
- 35.5 dB Gain
- 2 Watts Output Power
- +48 dBm OIP3
- +28 Vdc Supply Voltage

### Specifications @ 25°C

Parameter	Units	Minimum	Typical	Maximum	Comments
Frequency Range	MHz	1.0		200.0	
Gain Flatness (f = 1 to 200 MHz)	dB		± 0.5	± 1.0	
Power Gain (f = 1 to 200 MHz)	dB	34.0	35.5	37.0	
Noise Figure	dB		4.5	6.0	
1 dB Compression Point	dBm	+31.0	+33.0		f = 1 to 200 MHz
3rd Order Intercept Point	dBm	+45.0	+48.0		
Input / Output VSWR			1.5:1	2:1	f = 1 to 200 MHz
2nd Harmonic Distortion					
Po = +20 dBm	dBc		-60.0	-50.0	f <sub>2H</sub> = 150 MHz
Supply Current	mA	400	435	470	

Test Conditions:  
50 Ohm System  
Vcc = 28 Vdc  
DC supply voltage ± 2%



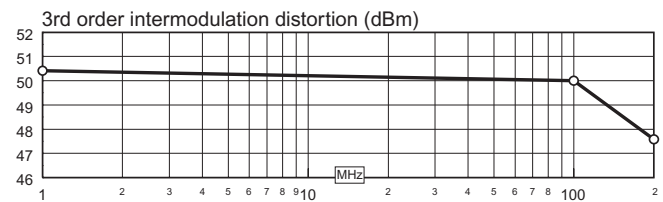
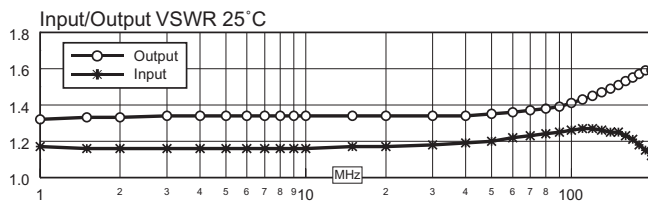
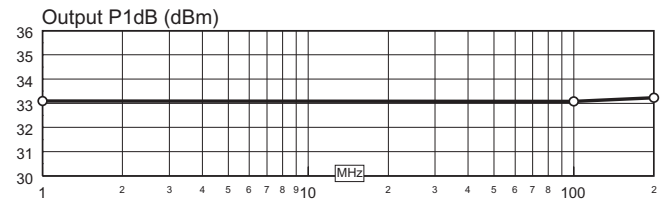
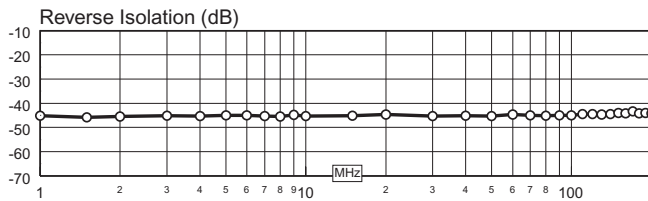
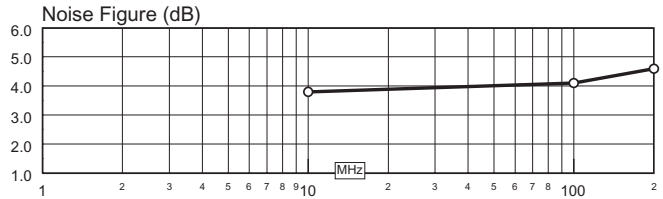
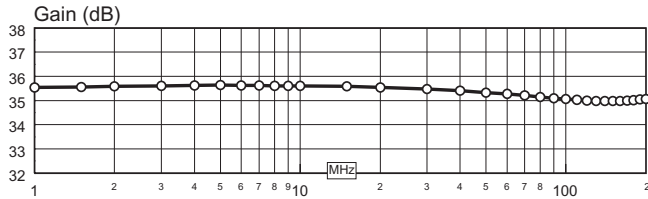
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# Linear Module Amplifier

## QBH-2832

### Performance @ 25°C



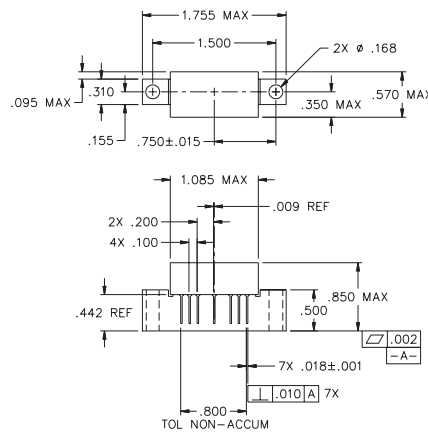
### Absolute Maximum Ratings

Rating	Specification
DC Supply Voltage	30 Vdc max
RF Input Power	+5 dBm max
Operating Case Temperature <sup>1</sup>	-20°C (min) to +90°C (max)
Storage Temperature	-40°C (min) to +100°C (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.

### Outline Drawing



#### Notes:

- Dimensions are in inches.
- Horizontal mounting holes (not shown) optional.

CA DS-QBH2832, Revision 080503



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