

1 to 200 MHz Amplifier Module Targets Broadband Communication Systems

REMEC now offers an amplifier module that can replace discontinued devices with no change in circuit layout or operating specifications

A broadband amplifier module for the HF-VHF range is offered by REMEC, Inc. The QBH-2832 is intended for applications in the 1 to 2000 MHz range that require high output drive

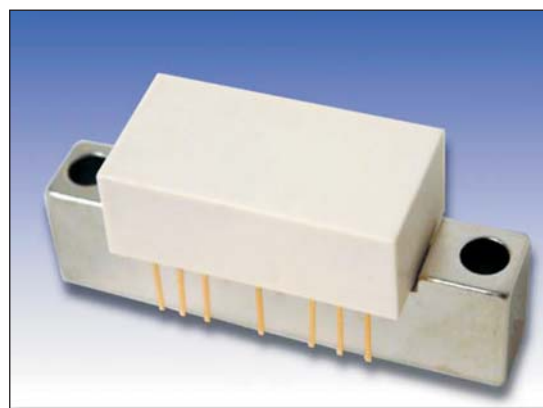
level, high gain and high linearity.

The QBH-2832 is a 50-ohm modular component, which can replace discontinued models from other manufacturers. Applications include broadband data communications (e.g. cable modems) and CATV system return-path amplifiers. The device is also suitable for receiver multi-couplers, broadband drivers or medium-power PAs.

Specifications of the device are listed in the table below. These are typical values in a 50 ohm system. The operating temperature range is specified as -20°C to $+90^{\circ}\text{C}$, although

Frequency range:	1 to 200 MHz
Gain flatness:	± 0.5 dB
Power gain:	35.5 dB
Noise figure:	4.5 dB
1 dB compression point:	+33.0 dBm
3rd order intercept:	+48 dBm
Input/output VSWR:	1.5:1
2nd harmonic ($P_0 = +20$ dBm, $f_{2H} = 150$ MHz)	-60 dBc
Supply current:	435 mA
Operating voltage:	28 VDC
Maximum input power:	+5 dBm

Typical specifications for the QBH-2832. See the data sheet at the company's web site for maximum and minimum values.



The QBH-2832 from REMEC offers high gain, 2 watts output power and excellent linearity over the 1 to 200 MHz range.

all specifications may not be met over the entire range. Storage temperature is -40°C to $+100^{\circ}\text{C}$.

Although the QBH-2832 is, in part, intended to replace previous models from other manufacturers, it is designed using the latest engineering design techniques, using current transistor technology and manufacturing methods. Packaging is a standard module for replacement applications.

REMEC is reportedly developing a surface-mount version of the device, which will fulfill requirements for additional high dynamic range and medium power applications in this frequency range.

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