REMEC

Hybrid Amplifiers

Low Noise Figure

1850 - 1910 MHz

QBH-8762

Electrical Specifications [1]:

Parameter	Specification Limit		Units
Temperature	+25 (Typical)	-20 to +85	°C
Frequency Range	1850 - 1910		MHz
Small Signal Gain	26.75 ± 0.75		dB
Gain vs. Temperature			dB Max
Gain Flatness	0.8	0.8	dB Max p-p
Reverse Isolation	45	45	dB Min
VSWR Input	1.4:1	1.4:1	Max
Output	1.5:1	1.5:1	Max
1 dB Compression	+24	+24	dBm Min
Output Intercept Point			
3rd Order	+37	+37	dBm Min
2nd Order			dBm Min
Noise Figure	1.0	1.4	dB Max
DC Power @ 15 Vdc ± 1%	210		mA Max
Gain vs. Vdc			dB/Volt Max
Housing	Hybrid SM (E52-19422)		

Notes:
1. Specifications are guaranteed when tested in a 50 Ohm system. Specifications indicated as typical are not guaranteed.

Absolute Maximum Ratings

Power Supply Voltage
- Sustaining . . . . . .15.5 Vdc
- Pulse (transient) . . . . . .15.5 Vdc

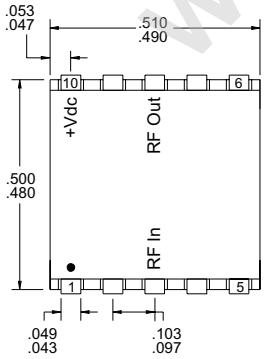
Temperature
- Operating . . . . . .-60 to +85°C
- Storage . . . . . .-65 to +150°C

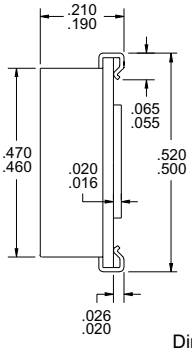
Max Input Drive . . . . . .1.0 VRMS

Thermal Rise, junction-to-case . . . .+58°C

Typical S-Parameter Data

	S11		S21		S12		S22	
MHz	dB	Ang	dB	Ang	dB	Ang	dB	Ang
1850	-19.6	66.9	27.3	-67.8	-47.2	-175.8	-16.1	175.0
1860	-20.2	66.7	27.2	-70.4	-48.6	-177.4	-16.2	173.6
1870	-20.8	65.8	27.1	-73.1	-47.7	176.8	-16.3	172.0
1880	-21.8	65.7	27.1	-75.9	-47.8	173.1	-16.4	170.2
1890	-22.8	65.8	27.0	-78.7	-47.1	171.0	-16.5	168.8
1900	-24.0	65.1	26.9	-81.4	-47.3	170.0	-16.7	166.9
1910	-25.3	63.3	26.8	-84.3	-46.6	168.9	-16.9	166.1





Pin Configuration
3 - RF In
8 - RF Out
10 - +Vdc
All Others - GND

Dimensions are in inches