REMEC

Hybrid Amplifiers

Low Noise Figure

1850 - 1910 MHz

QBH-8702

Electrical Specifications [1]:

Parameter	Specification Limit	Units
Temperature	+25 (Typical)	°C
Frequency Range	1850 - 1910	MHz
Small Signal Gain	28.0 ± 1.0	dB
Gain vs. Temperature		dB Max
Gain Flatness	0.9	dB Max p-p
Reverse Isolation	44	dB Min
VSWR Input **Output**	1.5:1 1.5:1	Max Max
1 dB Compression	+25	dBm Min
Output Intercept Point **3rd Order** **2nd Order**	+37	 dBm Min dBm Min
Noise Figure	1.2	dB Max
DC Power @ 12 Vdc ± 1%	190	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 . . . . . .-55 to +125°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	-29.3	24.2	28.2	-91.9	-47.5	177.2	-13.4	144.1
1860	-30.1	48.5	28.1	-95.3	-46.4	167.4	-13.5	141.7
1870	-33.0	73.4	28.0	-98.5	-47.9	178.2	-13.8	139.8
1880	-31.3	136.3	27.9	-101.3	-48.5	178.0	-14.1	139.6
1890	-27.4	149.6	27.9	-104.5	-45.9	-175.9	-14.1	139.2
1900	-23.0	152.2	27.8	-107.7	-49.1	177.8	-14.0	137.1
1910	-20.5	151.2	27.7	-111.3	-48.7	162.7	-13.9	134.3