

Electrical Specifications ⁽¹⁾:

Parameter	Specification Limit		Units
Temperature	+25 (Typical)	0 to +85	°C
Frequency Range	1450 - 1500		MHz
Small Signal Gain	20.6 ± 0.6		dB
Gain vs. Temperature		+0.3 / -0.7	dB Max
Gain Flatness	0.4	0.4	dB Max p-p
Reverse Isolation	25	25	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB Compression	+31	+30	dBm Min
Output Intercept Point			
3rd Order	+47	+46	dBm Min
2nd Order			dBm Min
Noise Figure	4.0	5.0	dB Max
DC Power @ 15 Vdc ± 1%	360	370	mA Max
Gain vs. Vdc	0.20		dB/Volt Max
Housing	Hybrid SM (E52-19422)		

QBH-8766

Absolute Maximum Ratings

Power Supply Voltage
 Sustaining18.0 Vdc
 Pulse (transient)20.0 Vdc
 Temperature
 Operating-60 to +85°C
 Storage-65 to +150°C
 Max Input Drive3.0 VRMS
 Thermal Rise, junction-to-case+40°C

Notes:

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

Typical S-Parameter Data

	S11		S21		S12		S22	
MHz	dB	Ang	dB	Ang	dB	Ang	dB	Ang
1472	-24.1	-137.2	20.6	-22.6	-28.3	-45.9	-19.0	110.0
1477	-24.2	-137.7	20.5	-24.5	-28.3	-47.0	-19.2	109.3
1482	-24.3	-137.2	20.5	-26.4	-28.3	-47.8	-19.5	108.5
1487	-24.3	-137.3	20.4	-28.3	-28.2	-49.5	-19.7	108.1
1492	-24.4	-135.9	20.3	-30.3	-28.3	-51.1	-20.0	107.4
1500	-24.5	-136.6	20.2	-33.3	-28.3	-51.9	-20.4	106.6

