

Electrical Specifications ⁽¹⁾:

Parameter	Specification Limit		Units
Temperature	+25 (Typical)	-40 to +70	°C
Frequency Range	890 - 915		MHz
Small Signal Gain	15.8 min		dB
Gain vs. Temperature		+1.5 /	dB Max
Gain Flatness	0.3	0.6	dB Max p-p
Reverse Isolation	21	19	dB Min
VSWR Input	1.5:1	2.0:1	Max
Output	1.6:1	2.0:1	Max
1 dB Compression	+27	+26	dBm Min
Output Intercept Point			
3rd Order	+42	+39	dBm Min
2nd Order			dBm Min
Noise Figure	1.0	1.5	dB Max
DC Power @ 15 Vdc ± 1%	150	170	mA Max
Gain vs. Vdc			dB/Volt Max
Housing	Hybrid SM (E52-19422)		

QBH-8713

Absolute Maximum Ratings

Power Supply Voltage
 Sustaining 20.0 Vdc
 Pulse (transient) 20.0 Vdc
 Temperature
 Operating -55 to +125°C
 Storage -65 to +150°C
 Max Input Drive 2.0 VRMS

Notes:

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

Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
890	-15.8	54.6	15.9	-42.4	-20.7	-58.4	-12.8	-118.1
895	-16.4	41.7	15.9	-44.7	-20.6	-60.8	-12.8	-122.5
900	-17.0	26.9	15.9	-47.0	-20.6	-62.3	-12.8	-127.1
905	-17.5	10.1	15.8	-49.2	-20.5	-64.3	-12.8	-131.7
910	-17.8	-7.0	15.8	-51.5	-20.5	-66.5	-12.8	-136.1
915	-17.9	-21.7	15.7	-53.7	-20.4	-68.2	-12.8	-140.6

