

Electrical Specifications ⁽¹⁾:

Parameter	Specification Limit		Units
Temperature	+25 (Typical)	-40 to +70	°C
Frequency Range	824 - 849		MHz
Small Signal Gain	24.5 min		dB
Gain vs. Temperature		+2.0 /	dB Max
Gain Flatness	0.4	0.6	dB Max p-p
Reverse Isolation	40	36	dB Min
VSWR Input	1.4:1	2.0:1	Max
Output	1.4:1	2.0:1	Max
1 dB Compression	+23	+21	dBm Min
Output Intercept Point			
3rd Order	+36	+33	dBm Min
2nd Order			dBm Min
Noise Figure	1.2	1.7	dB Max
DC Power @ 15 Vdc ± 1%	140	175	mA Max
Gain vs. Vdc			dB/Volt Max
Housing	Hybrid SM (E52-19422)		

QBH-8720

Absolute Maximum Ratings

Power Supply Voltage
Sustaining17.0 Vdc
Pulse (transient)17.0 Vdc
Temperature
Operating-55 to +125°C
Storage-65 to +150°C
Max Input Drive2.0 VRMS

Notes:

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

Typical S-Parameter Data

S11			S21		S12		S22	
MHz	dB	Ang	dB	Ang	dB	Ang	dB	Ang
825	-15.3	136.5	24.6	165.6	-40.8	46.4	-16.8	51.0
830	-15.4	131.8	24.5	163.9	-40.6	46.8	-16.7	48.7
835	-15.5	126.4	24.4	162.2	-40.7	48.7	-16.6	46.6
840	-15.5	121.1	24.3	160.6	-40.8	47.3	-16.5	44.5
845	-15.4	115.8	24.3	158.8	-40.7	44.6	-16.4	42.4

