

Hybrid Amplifiers Low Noise Figure

Electrical Specifications ⁽¹⁾:

Parameter	Specification Limit	Units
Temperature	+25 (Typical)	°C
Frequency Range	1850 - 1910	MHz
Small Signal Gain	22.5 ± 0.5	dB
Gain vs. Temperature		dB Max
Gain Flatness	0.7	dB Max p-p
Reverse Isolation	40	dB Min
VSWR Input	1.5:1	Max
VSWR Output	1.5:1	Max
1 dB Compression	+20.0	dBm Min
Output Intercept Point		
3rd Order	+35	dBm Min
2nd Order		dBm Min
Noise Figure	1.0	dB Max
DC Power @ 15 Vdc ± 1%	210	mA Max
Gain vs. Vdc		dB/Volt Max
Housing	Hybrid SM (E52-19422)	

QBH-8756

Absolute Maximum Ratings

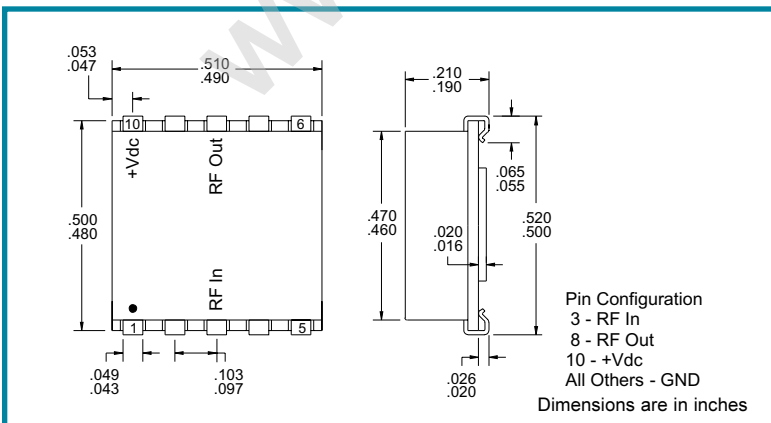
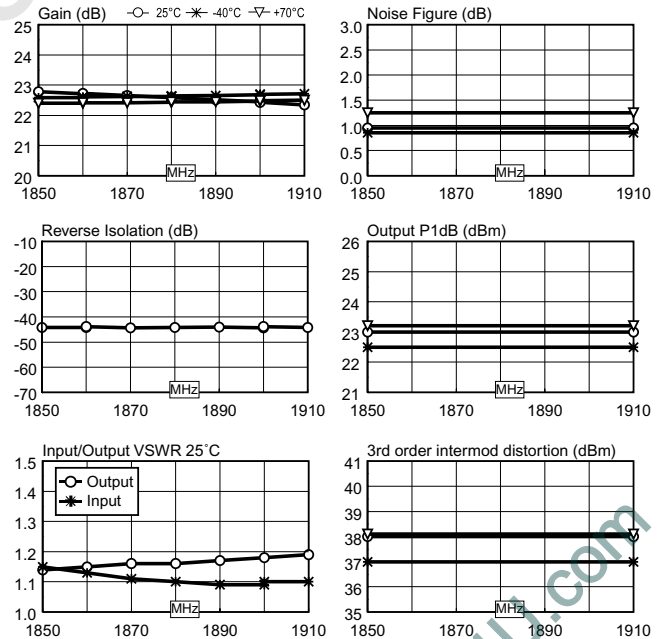
Power Supply Voltage	
Sustaining	15.5 Vdc
Pulse (transient)	15.5 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Max Input Drive	1.0 VRMS
Thermal Rise, junction-to-case	+58°C

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
1850	-24.0	107.5	22.8	-66.5	-44.2	-165.5	-23.9	115.3
1860	-25.6	114.7	22.7	-68.9	-43.9	-175.4	-23.4	114.0
1870	-27.7	119.8	22.7	-71.5	-44.4	-172.5	-22.9	112.5
1880	-29.9	124.0	22.6	-74.0	-44.1	-174.4	-22.5	110.8
1890	-30.4	130.0	22.5	-76.6	-44.1	-175.1	-22.1	107.9
1900	-28.0	137.0	22.4	-79.0	-43.9	-175.8	-21.8	106.5
1910	-26.6	143.4	22.3	-81.6	-44.2	-174.5	-21.5	104.8



Specifications subject to change without notice.