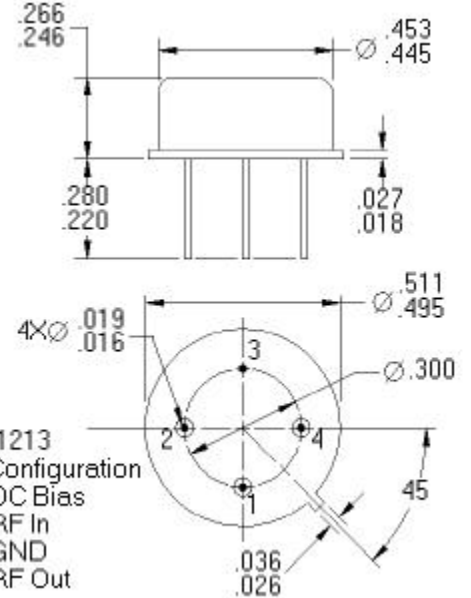


QBH-150 Amplifier Performance Specifications

Specifications	Min/Max +25 °C	Min/Max -55 to +85 °C
Frequency (MHz)	10 - 300	
Gain (dB)	20.0 ±0.5	+0.4 / -0.8
Gain Flatness (dB)	+0.4	+0.6
Noise Figure (dB)	3.9	4.4
Power Out (dBm)	+18.0	+17.0
3rd Order Int (dBm)	+30.0	+28.0
2nd Order Int (dBm)	+40.0	+36.0
Reverse Isolation (dB)	+25.0	+25.0
Input VSWR	1.5:1	1.5:1
Output VSWR	2.0:1	2.0:1
DC Current (mA)	+46.0	+47.0
DC Voltage (V)	+15.0	
Gain vs. Vdc (dB/V)	+0.10	

Mechanical Outline Drawing



Absolute Maximum Ratings	
Sustained Voltage (Vdc)	+20.0
Pulsed (Transient) Voltage (V)	+23.0
Operating Temperature	-55 to +125 °C
Storage Temperature	-65 to +150 °C
Maximum Input Drive (Vrms)	+1.5
Thermal Rise, junction-case	+31 °C
Drawing Revision	D1

Frequency (MHz)	S11		S21		S12		S22	
	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle
10	-30.1	-137.0	20.0	-176.0	-41.0	26.5	-18.3	125.0
20	-30.9	168.0	20.0	176.0	-39.3	23.2	-22.4	127.0
30	-30.3	139.0	20.0	171.0	-38.6	23.4	-24.6	130.0
40	-29.2	119.0	20.0	166.0	-38.0	22.8	-26.1	131.0
50	-28.1	103.0	20.0	162.0	-37.4	25.9	-27.2	132.0
60	-26.9	91.4	20.0	157.0	-36.9	28.7	-28.4	132.0
70	-26.0	80.7	20.0	153.0	-36.4	28.7	-29.5	131.0
80	-25.1	70.9	20.0	149.0	-35.7	29.8	-30.9	131.0
90	-24.3	63.0	20.0	145.0	-35.1	30.0	-32.5	131.0
100	-23.5	54.8	20.0	141.0	-34.6	30.0	-34.4	132.0
150	-21.0	19.6	20.1	121.0	-32.2	27.2	-38.6	-141.0
200	-19.7	-14.7	20.2	99.8	-30.1	20.8	-26.0	-135.0
250	-19.3	-53.5	20.2	77.9	-28.2	12.7	-19.6	-155.0
300	-19.1	-96.7	20.1	55.1	-26.6	1.6	-15.2	-178.0

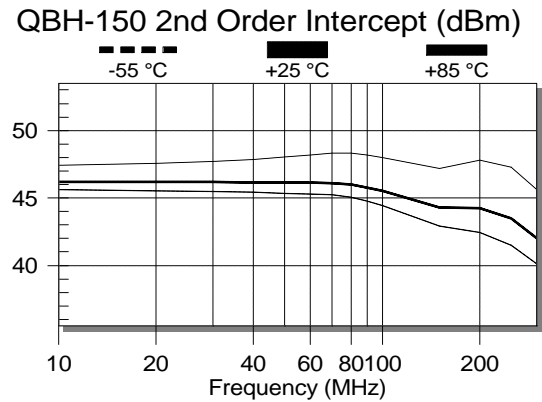
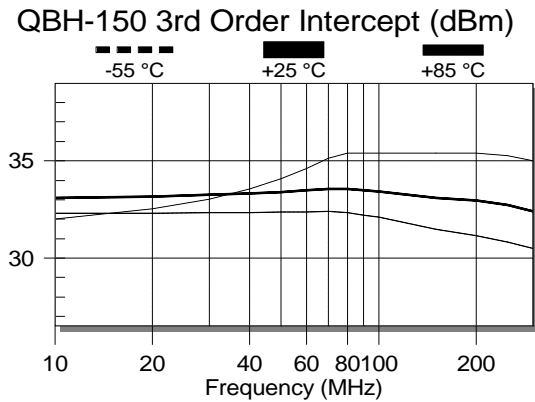
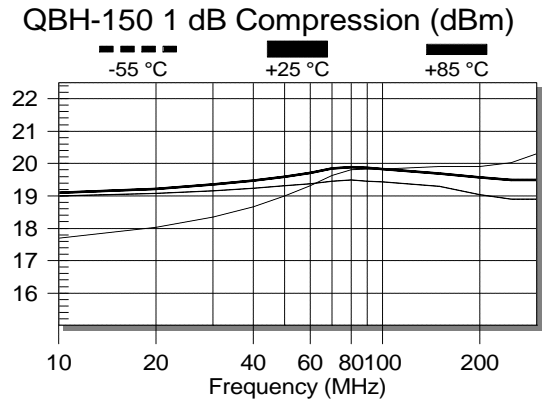
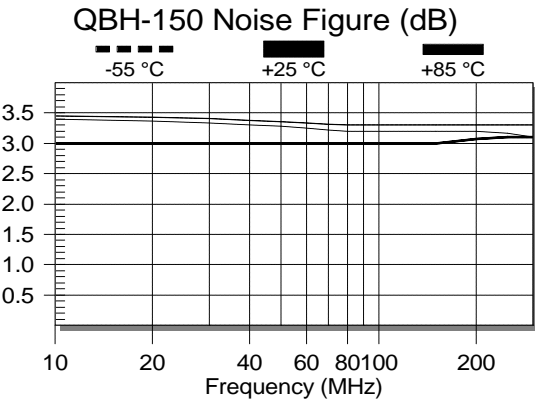
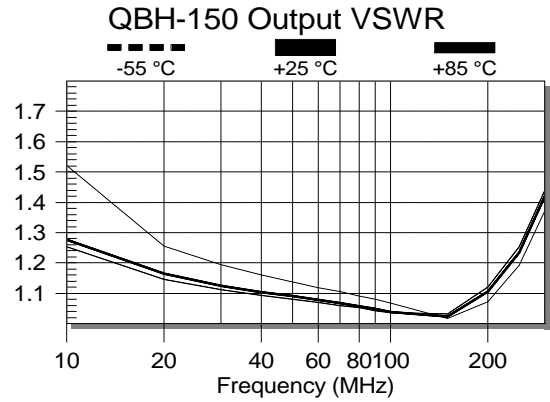
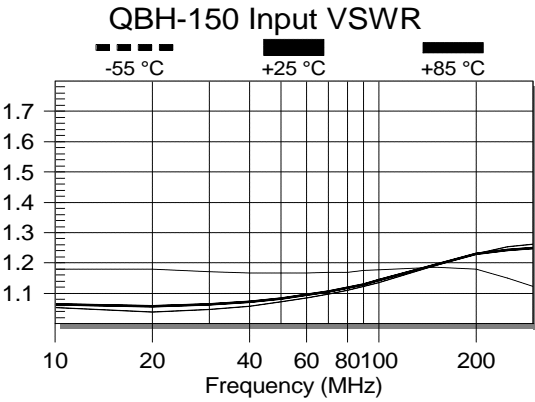
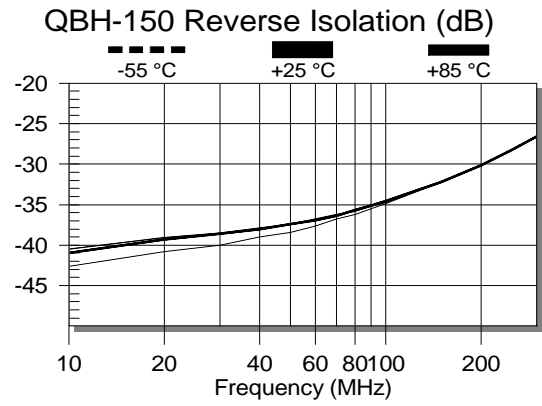
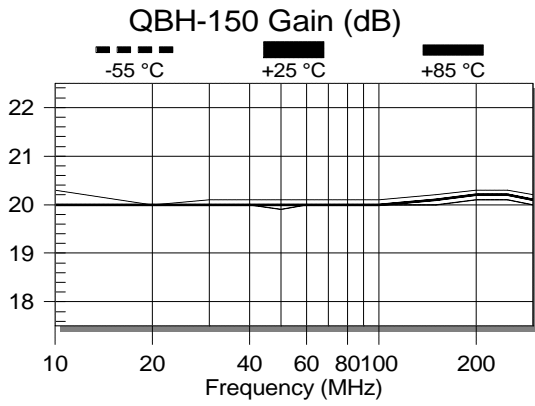
REMEC Q-bit

2144 Franklin Drive NE
Palm Bay, FL 32905
Q-Vision Ver. 2.0

Phone: (407) 727-1838
FAX: (407) 727-3729
Date: 02-27-1999

E-mail: sales@q-bit.com
Sales: (800) 226-1772

QBH-150 Amplifier Performance Specifications



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