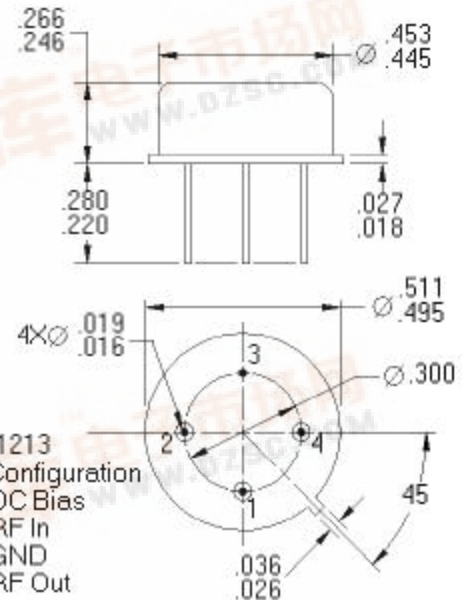


QBH-110 Amplifier Performance Specifications

Specifications	Min/Max +25 °C	Min/Max -55 to +100 °C
Frequency (MHz)	5 - 500	
Gain (dB)	15.0 ±0.5	+1.0 / -1.0
Gain Flatness (dB)	+0.6	+1.0
Noise Figure (dB)	3.0	3.5
Power Out (dBm)	+9.0	+9.0
3rd Order Int (dBm)	+23.0	+22.0
2nd Order Int (dBm)	+33.0	+32.0
Reverse Isolation (dB)	+25.0	+25.0
Input VSWR	1.5:1	1.5:1
Output VSWR	1.5:1	1.5:1
DC Current (mA)	+29.0	+31.0
DC Voltage (V)	+15.0	
Gain vs. Vdc (dB/V)	+0.05	

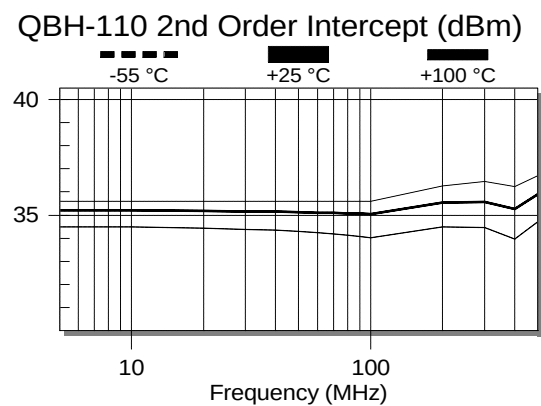
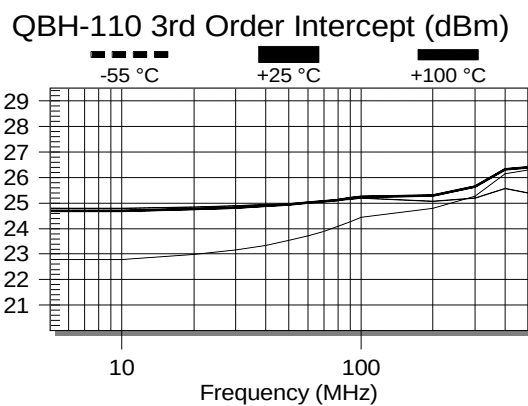
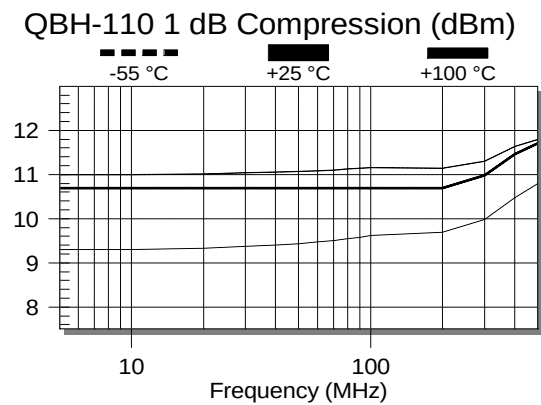
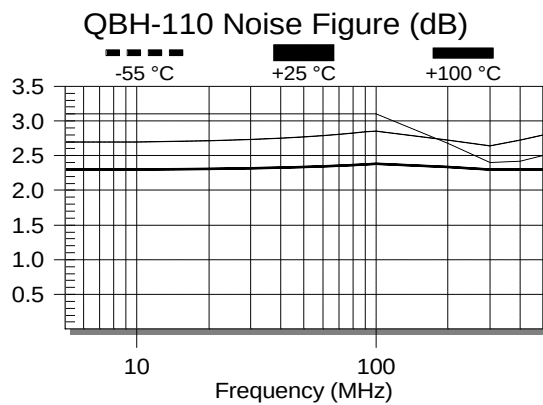
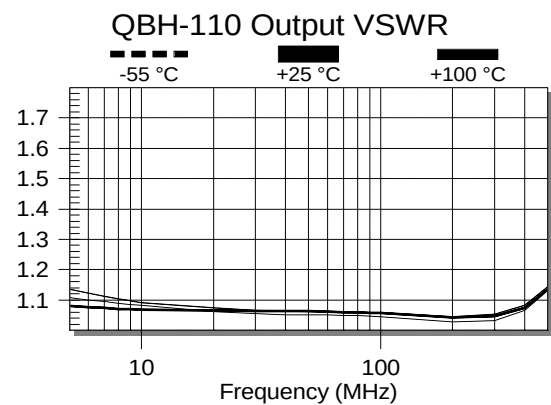
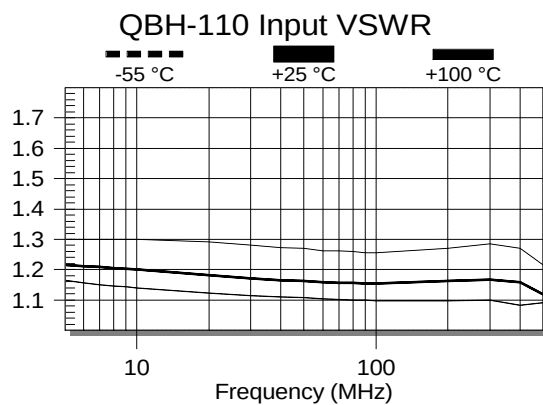
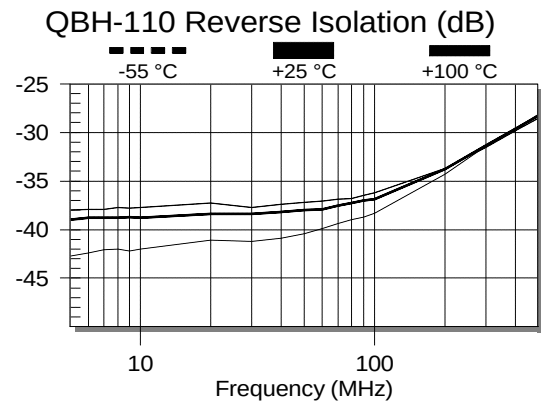
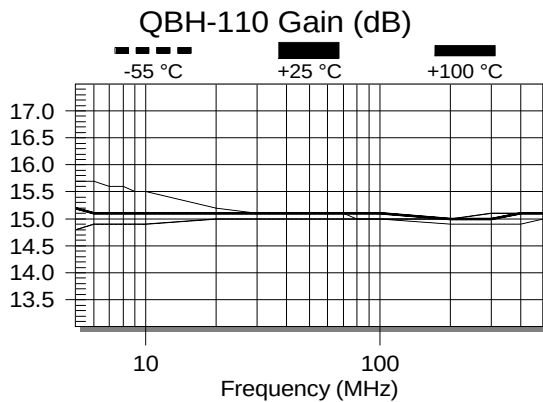
Mechanical Outline Drawing



Absolute Maximum Ratings	
Sustained Voltage (Vdc)	+17.0
Pulsed (Transient) Voltage (V)	+25.0
Operating Temperature	-55 to +125 °C
Storage Temperature	-65 to +150 °C
Maximum Input Drive (Vrms)	+1.0
Thermal Rise, junction-case	+14 °C
Drawing Revision	A1

Frequency (MHz)	S11		S21		S12		S22	
	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle
5	-20.2	-175.0	15.2	-180.0	-39.0	10.7	-28.3	162.0
6	-20.4	-177.0	15.1	179.0	-38.8	10.4	-28.7	163.0
7	-20.5	-179.0	15.1	179.0	-38.8	8.3	-29.0	164.0
8	-20.6	179.0	15.1	179.0	-38.8	8.4	-29.3	165.0
9	-20.7	178.0	15.1	178.0	-38.7	6.6	-29.4	167.0
10	-20.8	176.0	15.1	178.0	-38.8	8.7	-29.5	167.0
20	-21.6	172.0	15.1	175.0	-38.4	7.7	-30.0	171.0
30	-22.0	170.0	15.1	172.0	-38.4	8.6	-30.2	172.0
40	-22.3	169.0	15.1	169.0	-38.2	13.1	-30.2	172.0
50	-22.5	167.0	15.1	166.0	-38.0	11.4	-30.3	171.0
60	-22.7	166.0	15.1	163.0	-37.9	14.1	-30.4	169.0
70	-22.8	165.0	15.1	161.0	-37.5	14.7	-30.6	168.0
80	-22.8	164.0	15.1	158.0	-37.3	16.7	-30.7	166.0
90	-22.9	163.0	15.1	155.0	-37.0	16.1	-30.9	165.0
100	-22.9	161.0	15.1	152.0	-36.9	17.4	-31.1	164.0
200	-22.5	141.0	15.0	125.0	-33.8	16.1	-33.6	150.0
300	-22.2	112.0	15.0	97.6	-31.3	5.4	-32.8	158.0
400	-22.7	75.1	15.1	69.9	-29.6	-10.9	-28.8	173.0
500	-25.1	14.8	15.1	41.3	-28.3	-28.6	-23.9	168.0

QBH-110 Amplifier Performance Specifications



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