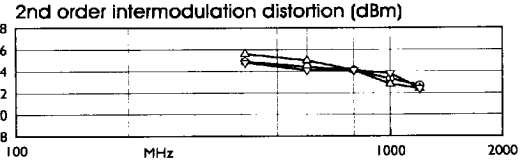
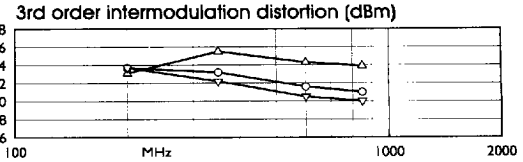
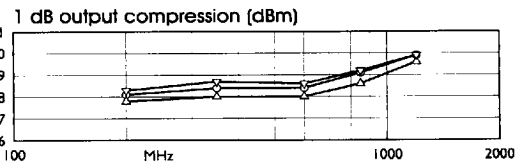
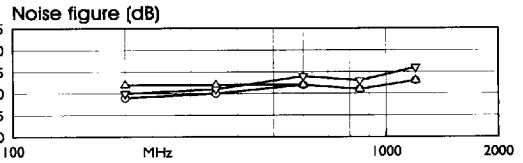
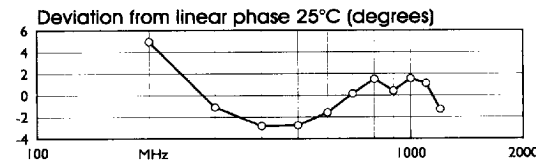
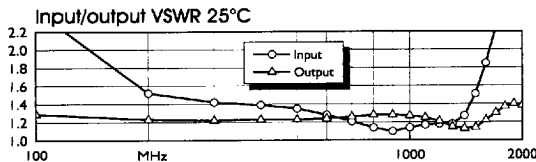
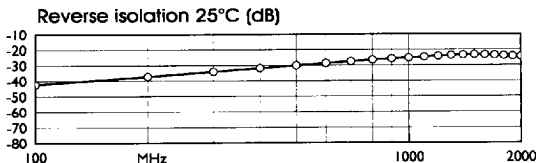
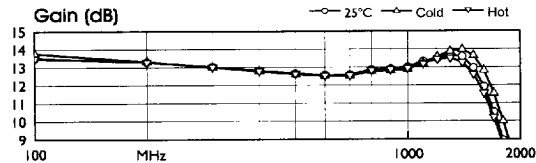


200 - 1200 MHz Standard Hybrid Amplifier

QBH-154

- **200-1200 MHz bandwidth**
- **Low noise figure**
- **High reverse isolation**
- **Wideband operation**
- **Quick ship item**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	200 - 1200		MHz
Small signal gain	12.8 ± 0.8		dB
Gain vs. temperature		+0.8/-1.4	dB Max
Gain flatness	1.0	1.5	dB Max p-p
Reverse isolation	23	22	dB Min
VSWR Input	2.0:1	2.0:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+8	+7	dBm Min
Output intercept point			
3rd Order	+21	+19	dBm Min
2nd Order	+31	+29	dBm Min
Noise figure	2.6	2.8	dB Max
DC power @ 15 Vdc ± 1%	23	24	mA Max
Gain vs. Vdc	0.10		dB/Volt Max
Housing	TO-8 LP (see page P-13 for details)		



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
200	-13.8	-163.1	13.3	154.2	-37.3	74.3	-19.6	-45.0
300	-15.2	35.1	13.0	124.5	-34.1	51.2	-19.9	-52.3
400	-15.8	161.8	12.8	99.2	-31.8	31.9	-19.8	-60.3
500	-16.7	142.4	12.6	75.7	-30.1	13.0	-19.8	-69.5
800	-24.4	100.5	12.9	9.1	-26.6	-41.4	-18.3	-102.4
1000	-25.1	26.2	13.0	-38.1	-25.3	-78.2	-18.5	-136.3
1100	-22.6	74.5	13.3	-62.1	-24.7	-96.7	-19.4	-154.5
1200	-22.6	39.9	13.6	-88.1	-24.2	-116.0	-21.6	-28.4

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+18.0 Vdc
Pulse (transient)	+25.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.0 VRMS
Thermal rise, junction-to-case	+9°C

H91-0154.0495, Revision B1

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