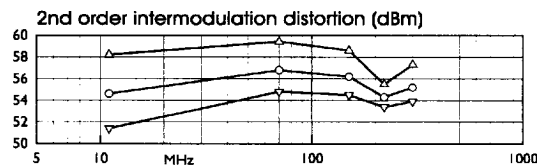
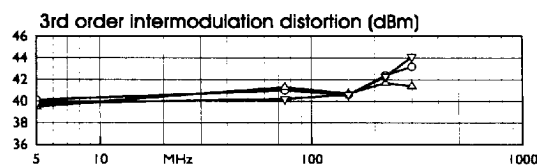
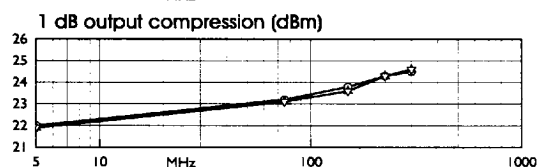
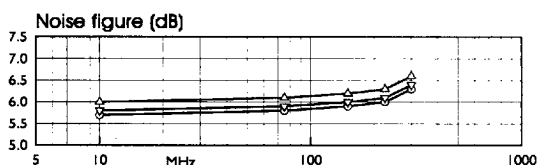
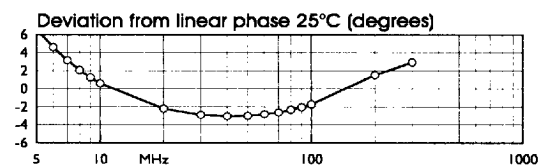
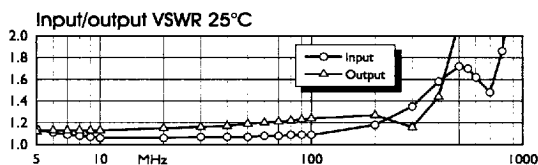
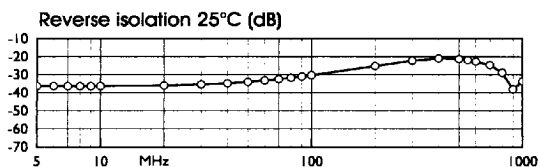
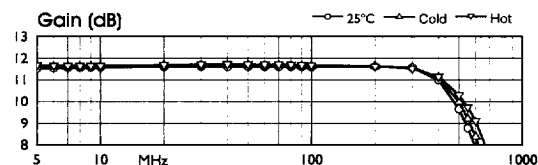


5 - 300 MHz Standard Hybrid Amplifier

QBH-103

- 5-300 MHz bandwidth
- Typical Noise Figure of 6 dB
- Guaranteed specifications over temperature
- Quick ship item

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	5 - 300		MHz
Small signal gain	11.3 ± 0.5		dB
Gain vs. temperature		+0.3/-0.6	dB Max
Gain flatness	0.4	0.6	dB Max p-p
Reverse isolation	22	22	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+22	+21	dBm Min
Output intercept point			
3rd Order	+37	+36	dBm Min
2nd Order	+51	+49	dBm Min
Noise figure	6.8	7.5	dB Max
DC power @ 15 Vdc ± 1%	91	95	mA Max
Gain vs. Vdc	0.05		dB/Volt Max
Housing	TO-8 (see page P-14 for details)		



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
5	-23.7	-85.5	11.6	-169.6	-36.4	16.6	-24.7	45.5
20	-30.6	-32.5	11.7	174.6	-36.0	17.7	-23.1	21.8
50	-28.9	-45.3	11.7	159.7	-34.0	29.3	-21.4	16.2
100	-26.9	-84.2	11.7	137.5	-30.3	34.4	-19.3	6.3
200	-21.9	-158.2	11.6	93.7	-25.2	19.0	-18.7	-32.2
300	-16.5	144.0	11.6	48.1	-22.2	-7.5	-23.1	-126.2

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+19.0 Vdc
Pulse (transient)	+25.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.5 VRMS
Thermal rise, junction-to-case	+31°C

H91-0103.0495, Revision D1

Q-bit Corporation • Main ☎ 407/727-1838 • Toll Free Sales ☎ 800/226-1772 • FAX ☎ 407/727-3729

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