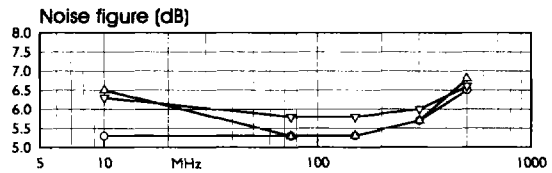
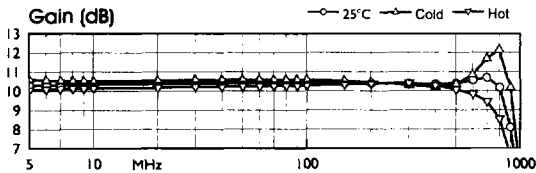


5 - 500 MHz Standard Hybrid Amplifier

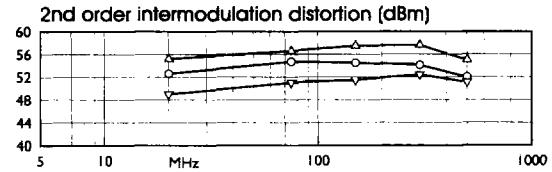
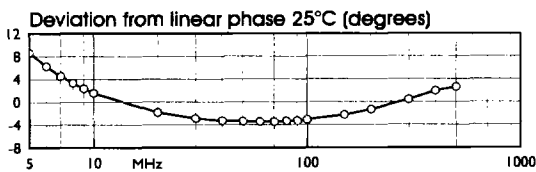
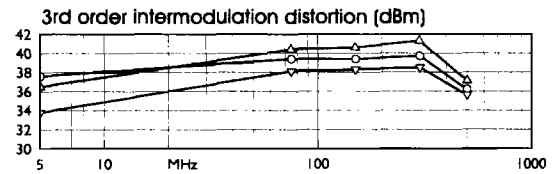
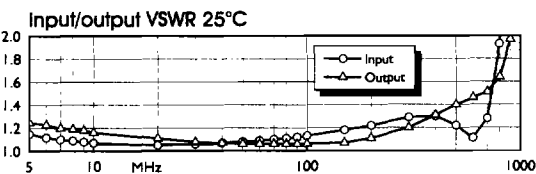
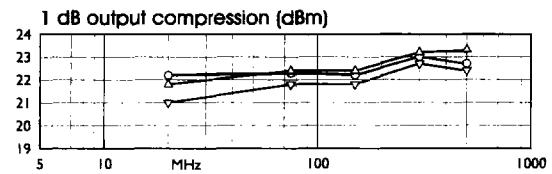
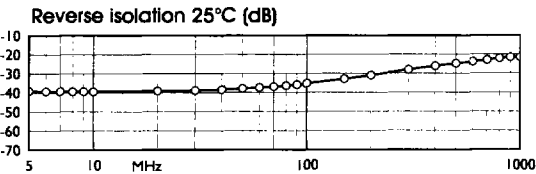
QBH-157

- **5-500 MHz bandwidth**
- **High reverse isolation**
- **Guaranteed specifications over temperature**
- **Guaranteed stability**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	5 - 500		MHz
Small signal gain	10.6 ± 0.5		dB
Gain vs. temperature	+0.3/-0.7		dB Max
Gain flatness	0.6	1.0	dB Max p-p
Reverse isolation	25	24	dB Min
VSWR Input	1.6:1	1.7:1	Max
Output	1.6:1	1.7:1	Max
1 dB compression	+22	+21	dBm Min
Output intercept point			
3rd Order	+33	+32	dBm Min
2nd Order	+52	+49	dBm Min
Noise figure	7.2	7.9	dB Max
DC power @ 15 Vdc ± 1%	91	95	mA Max
Gain vs. Vdc	0.10		dB/Volt Max
Housing	TO-8 (see page P-14 for details)		



HYBRID



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
5	-23.0	-89.2	10.3	-166.9	-39.1	34.9	-19.0	140.8
10	-29.9	-72.4	10.4	-175.8	-39.4	22.0	-22.4	139.8
50	-28.1	-56.4	10.4	165.3	-37.9	23.9	-30.2	161.6
100	-24.3	-82.4	10.4	148.1	-35.3	29.1	-31.5	-94.5
150	-21.6	-102.7	10.4	131.4	-32.9	26.7	-29.8	-145.6
200	-20.0	-118.8	10.4	114.9	-30.9	20.6	-26.6	-140.2
300	-18.0	-150.3	10.4	81.7	-28.1	2.8	-21.1	-154.4
400	-17.8	35.9	10.4	48.2	-26.1	-17.7	-17.6	-32.2
500	-20.1	146.7	10.4	13.9	-24.9	-39.9	-15.7	159.8

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+17.0 Vdc
Pulse (transient)	+17.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	2.5 VRMS
Thermal rise, junction-to-case	+40°C

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