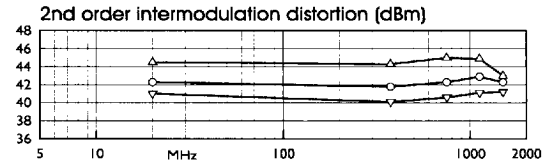
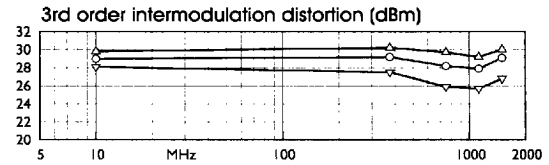
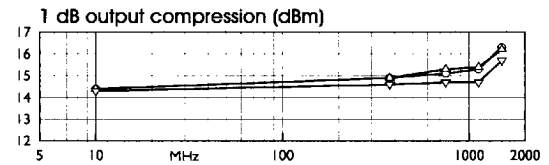
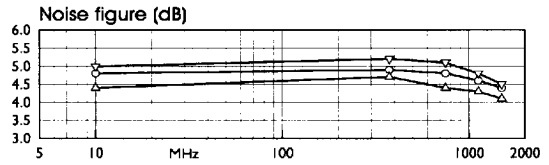
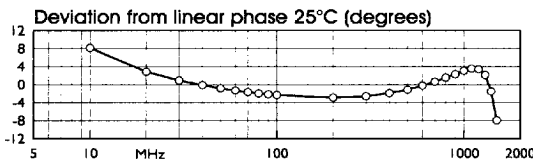
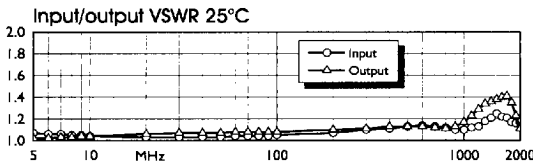
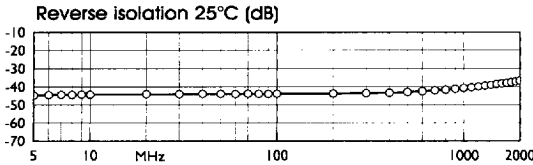
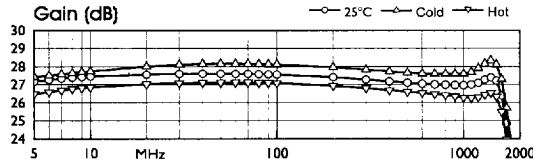


10 - 1500 MHz Standard Hybrid Amplifier

QBH-866

- **10-1500 MHz bandwidth**
- **High gain**
- **Low profile TO-8 package**
- **Very high reverse isolation**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	10 - 1500		MHz
Small signal gain	27.5 ± 1.0		dB
Gain vs. temperature	+1.5/-1.5		dB Max
Gain flatness	1.6	1.6	dB Max p-p
Reverse isolation	38	38	dB Min
VSWR Input	2.0:1	2.0:1	Max
Output	2.0:1	2.0:1	Max
1 dB compression	+13.5	+12.5	dBm Min
Output intercept point			
3rd Order	+26	+24	dBm Min
2nd Order	+38	+36	dBm Min
Noise figure	6.0	6.5	dB Max
DC power @ 15 Vdc ± 1%	85	87	mA Max
Gain vs. Vdc			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
10	-33.5	-96.2	27.4	-172.9	-44.3	12.0	-34.1	35.5
50	-35.8	-108.4	27.6	162.7	-43.8	-3.6	-29.1	-5.6
100	-32.8	-115.2	27.5	141.9	-43.8	-9.5	-28.0	-27.8
300	-26.9	-162.8	27.3	64.6	-43.5	-31.2	-25.4	-92.6
500	-24.3	141.6	27.1	-11.0	-42.9	-53.5	-24.6	-151.8
700	-24.3	68.7	27.0	-86.3	-41.9	-78.6	-25.4	135.4
900	-26.9	19.7	27.0	-161.8	-41.1	-106.4	-24.6	31.3
1100	-25.4	-84.0	27.0	122.4	-40.3	-136.2	-19.6	-49.6
1300	-21.8	-38.0	27.3	43.9	-39.4	-167.8	-16.9	-102.0
1500	-19.1	83.9	27.2	-43.2	-38.5	157.1	-16.0	-138.7

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	1.0 VRMS

H91-0866.0A95, Revision A1

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