

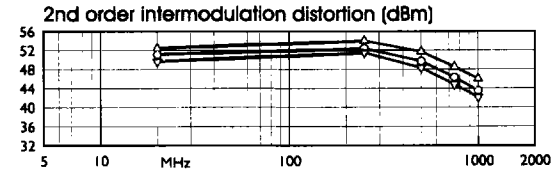
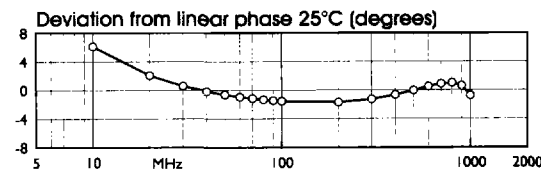
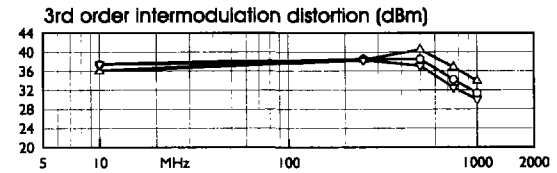
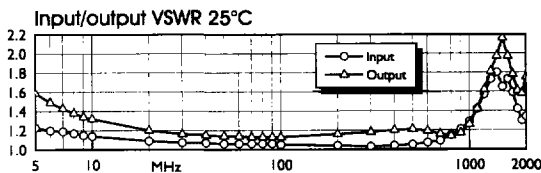
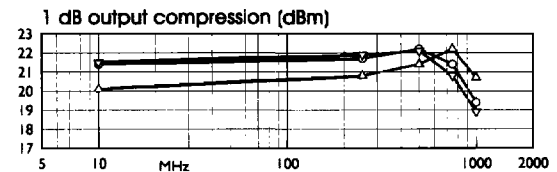
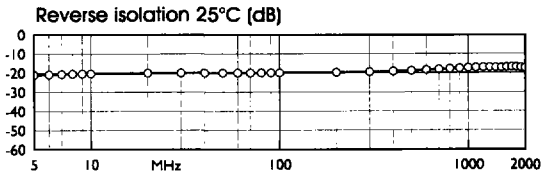
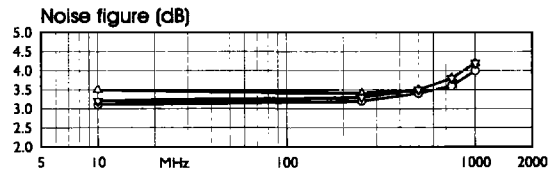
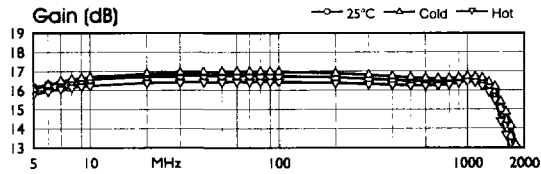
10 - 1000 MHz Standard Hybrid Amplifier

QBH-1280

- 10-1000 MHz bandwidth
- Low profile TO-8 package
- Unconditionally stable
- Low noise figure
- New item

Parameters	Specification limit		Units
Temperature	+25	-54 to +85	°C
Frequency range	10 - 1000		MHz
Small signal gain	16.3 ± 0.5		dB
Gain vs. temperature			dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	16	16	dB Min
VSWR Input	1.5:1		Max
Output	1.5:1		Max
1 dB compression			dBm Min
Output intercept point			
3rd Order	+31		dBm Min
2nd Order			dBm Min
Noise figure	4.0		dB Max
DC power @ 15 Vdc ± 1%	110	120	mA Max
Gain vs. Vdc			dB/Volt Max
Housing	TO-8 LP (see page P-13 for details)		

HYBRID



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
10	-23.5	-82.1	16.6	-174.0	-20.3	5.4	-17.3	129.4
20	-27.4	-112.1	16.7	179.4	-20.1	1.3	-20.9	131.4
100	-31.6	173.6	16.8	155.2	-19.9	-11.4	-24.0	116.2
200	-34.5	127.2	16.7	129.4	-19.7	-24.1	-22.7	85.1
400	-35.1	9.0	16.5	79.0	-19.2	-50.5	-20.8	32.9
600	-29.9	-49.2	16.5	28.7	-18.5	-79.7	-21.2	-2.5
800	-23.2	-72.8	16.5	-22.3	-17.8	-111.2	-23.6	2.4
1000	-17.9	-96.2	16.6	-75.4	-17.3	-144.7	-19.0	18.5

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+18.0 Vdc
Pulse (transient)	+18.0 Vdc
Temperature	
Operating	-65 to +150°C
Storage	-55 to +125°C
Maximum input drive	1.0 VRMS
Thermal rise, junction-to-case	+30°C

H91-1280-0495, Revision A1