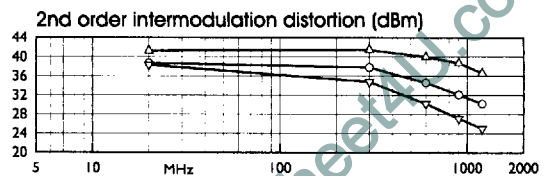
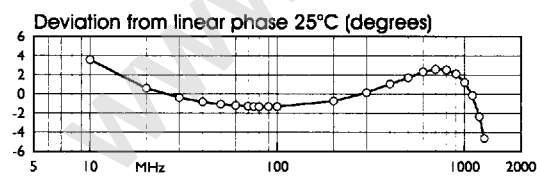
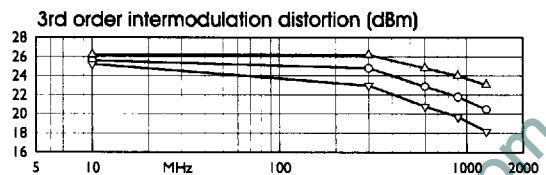
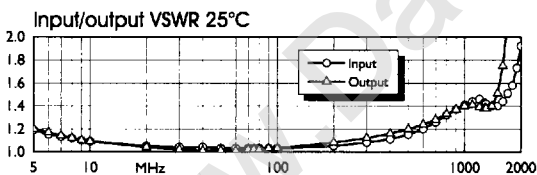
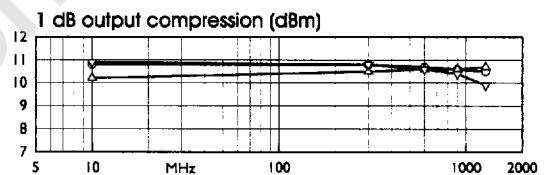
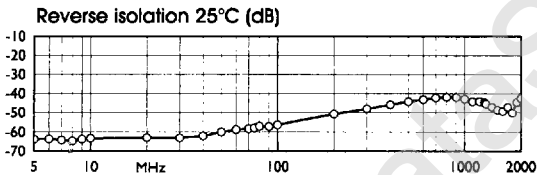
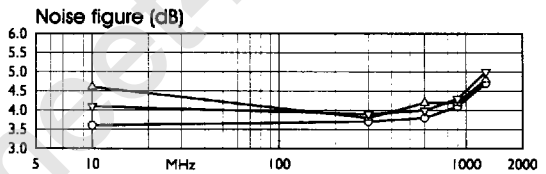
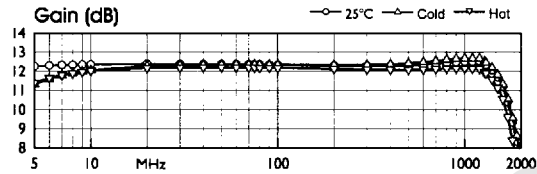


# 10 - 1275 MHz Standard Hybrid Amplifier

# QBH-876

- 10-1275 MHz bandwidth
- Very high reverse isolation
- Low power operation
- Wide bandwidth
- New item

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	10 - 1275		MHz
Small signal gain	12.2 ± 0.5		dB
Gain vs. temperature	+0.5/-0.5		dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	40	37	dB Min
VSWR Input	1.6:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+9	+8.5	dBm Min
Output intercept point			
3rd Order	+18	+16	dBm Min
2nd Order	+25	+22	dBm Min
Noise figure	5.0	5.5	dB Max
DC power @ 15 Vdc ± 1%	30	30	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	-26.9	-112.0	12.4	-176.4	-63.4	14.9	-27.1	-84.6
100	-37.0	131.6	12.3	157.4	-56.4	49.5	-35.9	46.1
200	-32.4	58.3	12.3	134.3	-50.7	41.8	-28.6	41.2
400	-25.4	-5.8	12.3	88.7	-45.9	19.2	-22.7	16.8
800	-17.2	-101.1	12.5	-4.7	-41.9	-49.3	-16.9	-55.9
1200	-14.6	167.6	12.5	-104.4	-44.2	-106.7	-15.7	-83.6
1275	-15.1	149.8	12.4	-124.5	-44.8	-149.4	-16.0	-106.5

### ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+17.0 Vdc
Pulse (transient)	+20.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.0 VRMS
Thermal rise, junction-to-case	+16°C

H91-0876-0493, Revision 0A