

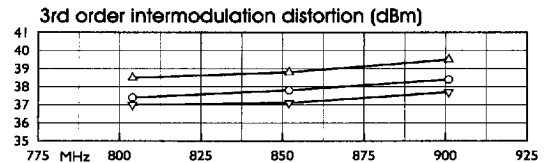
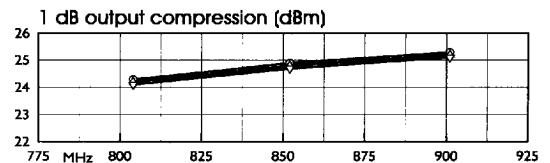
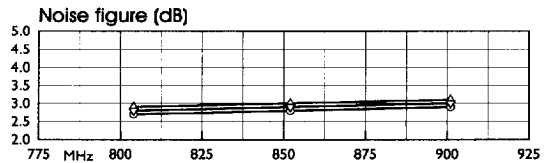
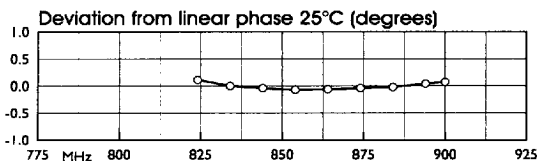
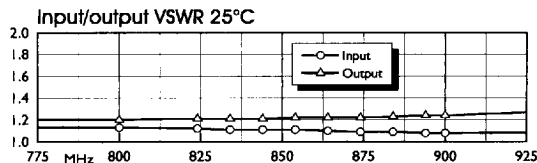
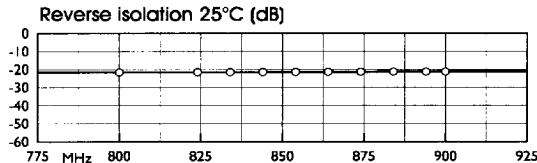
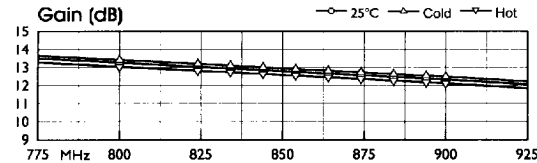
804 - 901 MHz Standard Hybrid Amplifier

QBH-1254

- **804-901 MHz bandwidth**
- **Low noise figure**
- **Broad band coverage**
- **Quick ship item**

Parameters	Specification limit		Units
Temperature	+25	-40 to +85	°C
Frequency range	804 - 901		MHz
Small signal gain	12.5 ± 0.5		dB
Gain vs. temperature			dB Max
Gain flatness			dB Max p-p
Reverse isolation	13	13	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+23.5	+23.5	dBm Min
Output intercept point			
3rd Order	+37	+37	dBm Min
2nd Order			dBm Min
Noise figure	3.5	3.5	dB Max
DC power @ 15 Vdc ± 1%	150	150	mA Max
Gain vs. Vdc			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
804	-25.2	-72.4	13.0	-24.9	-21.5	-20.7	-20.5	-33.9
834	-25.6	-75.4	13.0	-27.9	-21.4	-23.4	-20.4	-34.9
844	-26.0	-77.8	12.9	-30.8	-21.4	-25.9	-20.4	-35.8
854	-26.3	-80.1	12.8	-33.7	-21.3	-28.7	-20.2	-36.7
864	-26.8	-82.3	12.7	-36.6	-21.3	-31.3	-20.1	-37.6
874	-27.4	-84.7	12.6	-39.4	-21.2	-33.9	-19.9	-38.4
884	-28.1	-85.7	12.5	-42.3	-21.2	-36.4	-19.8	-39.2
894	-28.7	-86.0	12.4	-45.1	-21.2	-39.0	-19.6	-40.0
901	-29.2	-87.7	12.3	-46.8	-21.1	-40.5	-19.5	-40.7

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+20.0 Vdc
Pulse (transient)	+25.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	2.2 VRMS
Thermal rise, junction-to-case	+50°C

H91-1254.0495, Revision C1

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