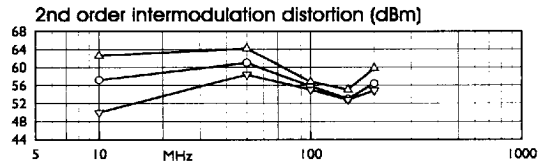
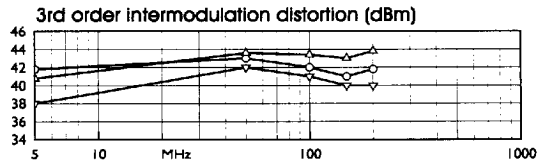
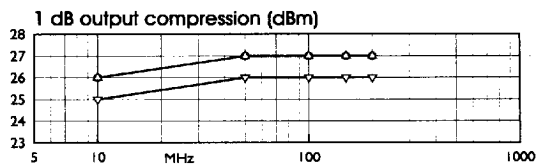
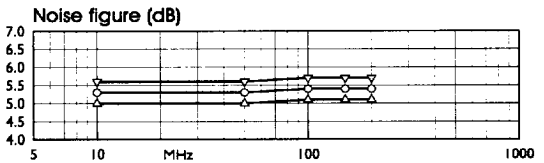
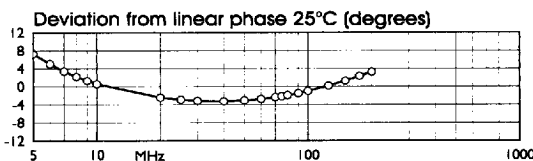
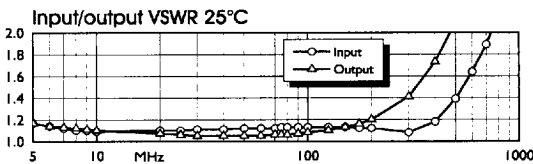
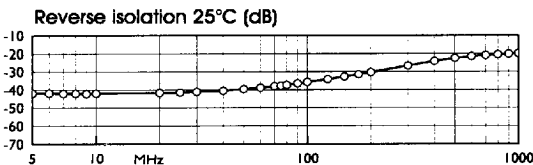
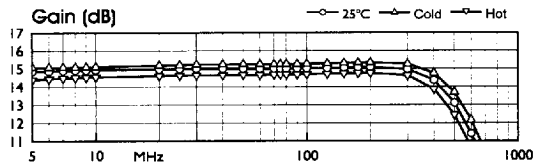


5 - 200 MHz Standard Hybrid Amplifier

QBH-214

- **5-200 MHz bandwidth**
- **High output power**
- **+24 Volt operation**
- **High output intercept points**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	5 - 200		MHz
Small signal gain	14.6 ± 0.6		dB
Gain vs. temperature		+0.5/-1.0	dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	25	25	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+25	+25	dBm Min
Output intercept point			
3rd Order	+37	+37	dBm Min
2nd Order	+50	+50	dBm Min
Noise figure	6.0	6.6	dB Max
DC power @ 24 Vdc ± 1%	130	130	mA Max
Gain vs. Vdc			dB/Volt Max
Housing	F-PACK .625 SMD (see page P-22 for details)		



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
5	-22.2	-66.8	14.8	-167.4	-41.8	33.9	-22.3	124.5
10	-27.1	-35.3	14.9	-176.2	-42.0	22.5	-26.5	115.8
50	-25.1	-2.1	15.0	163.1	-39.6	32.8	-32.3	69.9
100	-24.3	-8.5	15.0	143.9	-35.7	38.1	-28.8	15.9
150	-24.4	-14.4	15.0	124.8	-32.8	33.6	-24.3	-20.7
200	-25.2	-19.5	15.1	105.5	-30.4	25.9	-20.9	-52.3

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+26.0 Vdc
Pulse (transient)	+26.0 Vdc
Temperature	
Operating	-54 to +85°C
Storage	-54 to +150°C
Maximum input drive	1.2 VRMS
Thermal rise, junction-to-case	+65°C

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