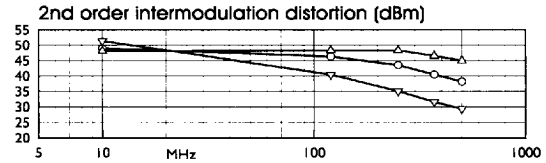
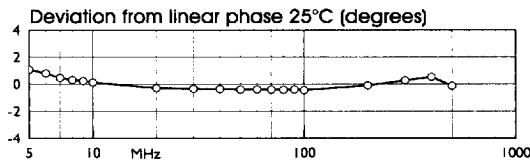
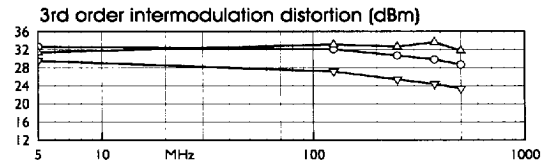
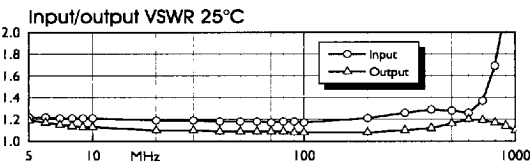
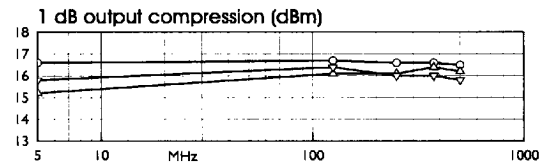
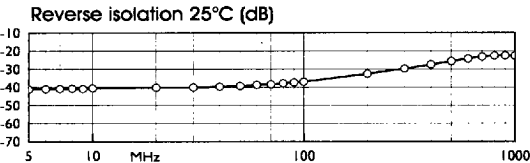
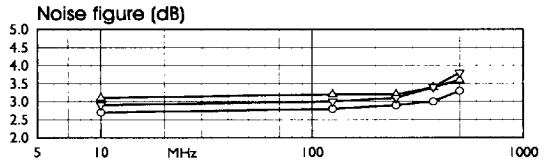
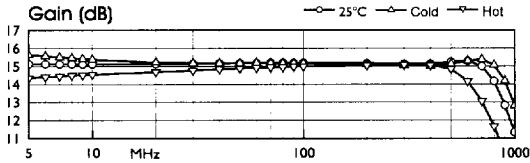


5 - 500 MHz Standard Hybrid Amplifier

QBH-226

- **5-500 MHz bandwidth**
- **Low noise figure**
- **High output intercept points**
- **Very flat gain response**

Parameters	Specification limit		Units
Temperature	+25	-55 to +100	°C
Frequency range	5 - 500		MHz
Small signal gain	15.0 ± 0.5		dB
Gain vs. temperature	+1.0/-1.0		dB Max
Gain flatness	0.6		dB Max p-p
Reverse isolation	25		dB Min
VSWR Input	1.5:1		Max
Output	1.5:1		Max
1 dB compression	+16		dBm Min
Output intercept point			
3rd Order	+28		dBm Min
2nd Order	+38		dBm Min
Noise figure	4.0		dB Max
DC power @ 15 Vdc ± 1%	55		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	-20.1	-169.0	15.1	-179.3	-41.2	14.0	-21.4	144.8
10	-20.6	107.1	15.1	178.1	-40.5	11.4	-24.4	150.0
50	-21.7	157.2	15.2	164.5	-39.3	18.1	-27.3	165.0
100	-21.9	136.7	15.2	148.3	-37.0	23.5	-28.2	164.6
200	-20.5	93.7	15.2	116.1	-32.6	13.7	-28.5	162.4
300	-18.9	50.1	15.1	84.0	-29.7	-5.1	-26.7	158.8
400	-18.0	1.8	15.1	51.8	-27.4	-27.0	-24.7	147.6
500	-18.4	-56.7	15.2	18.7	-25.7	-50.8	-22.6	127.7

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+19.0 Vdc
Pulse (transient)	+19.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.1 VRMS

H91-0226.0495, Revision A1

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