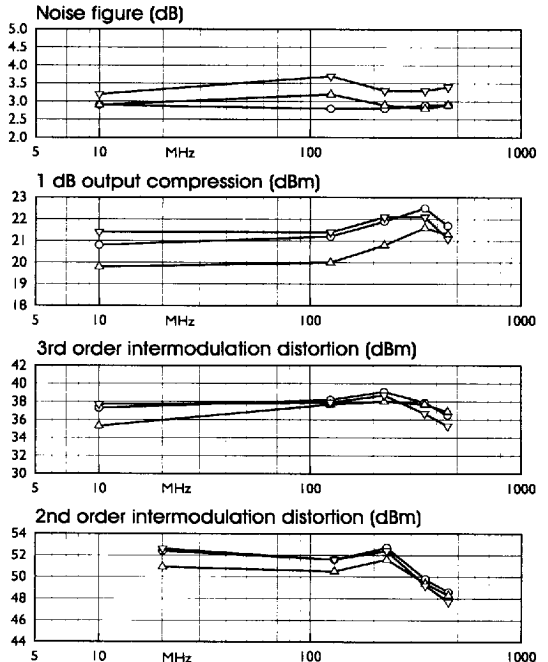
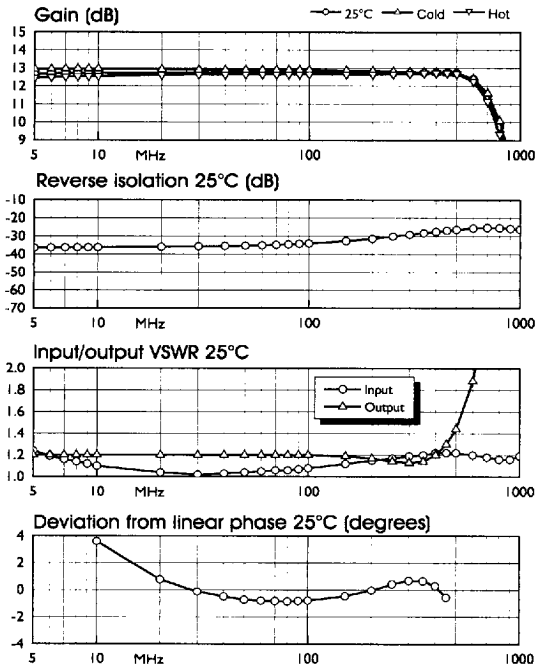


10 - 450 MHz Standard Hybrid Amplifier

QBH-826

- **10-450 MHz bandwidth**
- **Low noise figure**
- **High output power**
- **Very flat gain response**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	10 - 450		MHz
Small signal gain	12.5 ± 0.5		dB
Gain vs. temperature	+0.5/-1.0		dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	26	25	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+20	+19	dBm Min
Output intercept point			
3rd Order	+34	+32	dBm Min
2nd Order	+45	+43	dBm Min
Noise figure	3.5	4.0	dB Max
DC power @ 15 Vdc ± 1%	99	99	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
10	-26.2	-77.7	12.7	-176.9	-36.2	28.4	-20.8	16.1
50	-34.3	16.6	12.8	165.6	-35.3	12.6	-20.7	-9.1
100	-28.3	19.5	12.8	149.2	-34.0	11.5	-20.8	-25.2
150	-25.3	11.7	12.8	133.1	-32.7	8.2	-21.2	-40.9
250	-22.2	-8.9	12.7	101.2	-30.1	-5.2	-23.5	-83.7
350	-20.9	-37.1	12.8	68.7	-28.2	-25.0	-23.7	-161.4
450	-20.1	-68.1	12.8	34.7	-26.8	-48.0	-17.8	134.4

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+18.0 Vdc
Pulse (transient)	+22.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.4 VRMS

H91-0826.0495, Revision B1

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