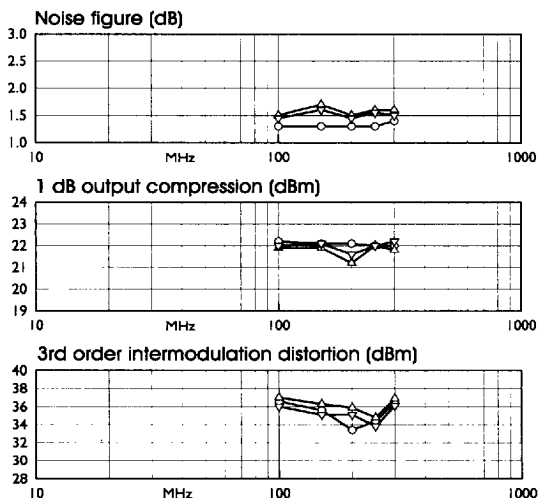
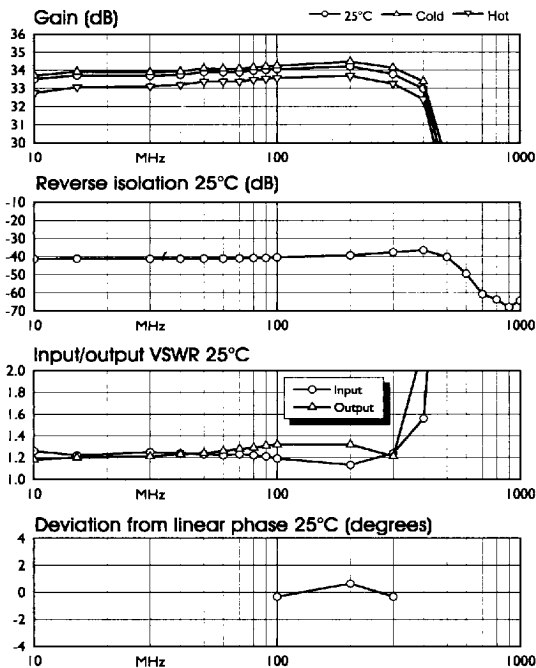


100 - 300 MHz Standard Hybrid Amplifier

QBH-853

- **100-300 MHz bandwidth**
- **Very low noise figure**
- **High dynamic range**
- **Very high gain**
- **High output power**
- **New item**

Parameters	Specification limit		Units
Temperature	+25	-55 to +85	°C
Frequency range	100 - 300		MHz
Small signal gain	33.5 ± 1.0		dB
Gain vs. temperature		+0.7/-1.1	dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	36	36	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+22	+21	dBm Min
Output intercept point			
3rd Order	+33	+33	dBm Min
2nd Order			dBm Min
Noise figure	1.8	2.2	dB Max
DC power @ 15 Vdc ± 1%	100	100	mA Max
Gain vs. Vdc			dB/Volt Max
Housing	TO-8B (see page P-12 for details)		



HYBRID

Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
100	-21.2	-55.4	34.1	-69.5	-40.5	142.7	-17.2	105.5
200	-25.0	143.6	34.2	-147.4	-39.4	99.4	-17.5	129.1
300	-19.5	78.8	33.8	132.7	-37.7	52.8	-20.8	124.3

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+18.0 Vdc
Pulse (transient)	+18.0 Vdc
Temperature	
Operating	-55 to +125°C
Storage	-65 to +150°C
Maximum input drive	1.0 VRMS

H91-0853.0495, Revision Preliminary

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