



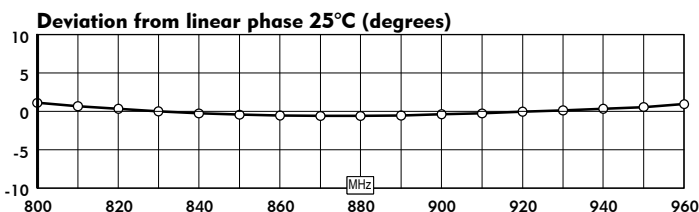
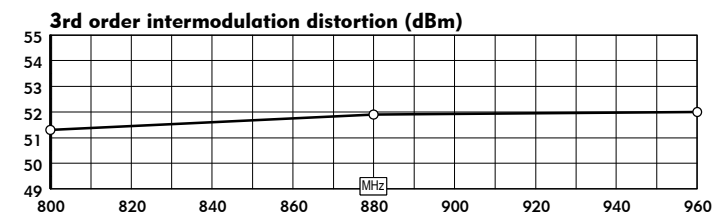
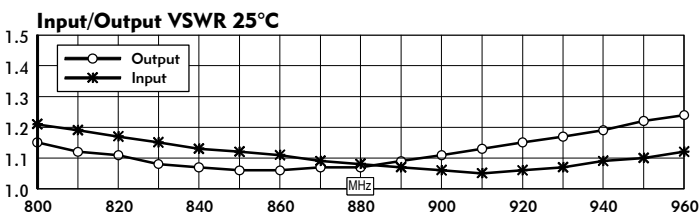
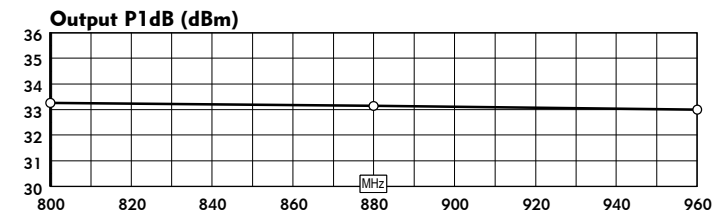
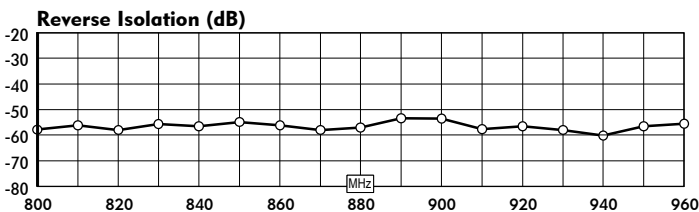
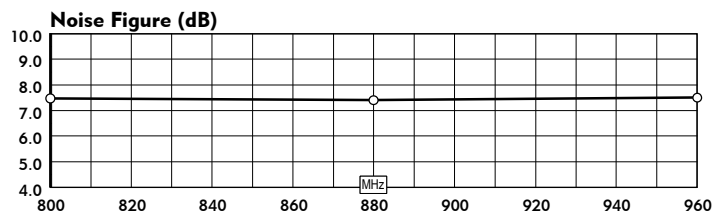
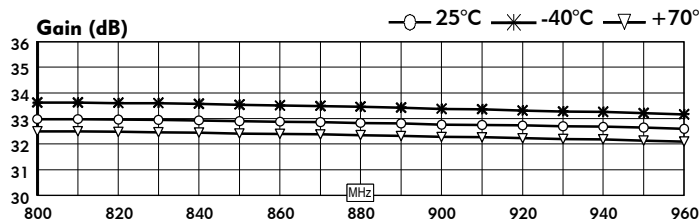
800 - 960 MHz Hybrid Amplifier

QBH-9077

- **Cellular basestation driver**
- **High gain**
- **+49 dBm typical IP3**
- **Low VSWR**
- **15 Vdc**

Parameters	Guaranteed	Guaranteed	Units
	25°C	-40 to +70°C	
Frequency range	800 - 960		MHz
Small signal gain	32.5 ± 1.0		dB
Gain vs. temperature		± 0.9	dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	-50	-50	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+32	+32	dBm Min
Output intercept point			
3rd Order	+49	+49	dBm Min
2nd Order			dBm Min
Noise figure	8.0	8.3	dB Max
DC supply voltage*	15		Vdc
DC supply current	520	540	mA Max
Gain vs. Vdc	0.1		dB/Volt Max
Package/Housing	(E52-19990)		

*all specification ratings are based on DC supply voltage ± 1%



TYPICAL S-PARAMETER DATA

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
800	-20.9	155.4	33.0	173.3	-57.8	-64.2	-23.2	121.7
830	-23.4	165.1	32.9	155.2	-55.7	-67.5	-28.3	101.3
850	-25.0	173.1	32.9	143.4	-54.8	-103.0	-32.6	69.4
870	-27.5	-170.0	32.8	132.0	-58.1	-133.3	-31.3	-10.9
890	-29.9	-152.7	32.8	120.7	-53.5	-135.1	-27.5	-45.3
910	-38.6	-142.0	32.7	109.6	-58.0	-115.0	-24.5	-59.3
930	-30.6	-132.8	32.7	98.5	-64.4	-40.5	-22.4	-69.7
950	-26.5	-125.7	32.6	87.4	-56.5	-161.5	-20.3	-72.6
960	-24.7	-121.3	32.6	81.9	-57.5	-150.3	-19.6	-78.2

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+18.0 Vdc
Pulse (transient)	+20.0 Vdc
Temperature	
Operating	-40 to +100°C
Storage	-50 to +150°C
Maximum input drive	2.0 Vrms
Thermal rise, junction-to-case	+34°C