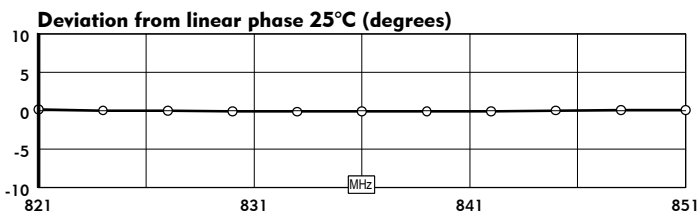
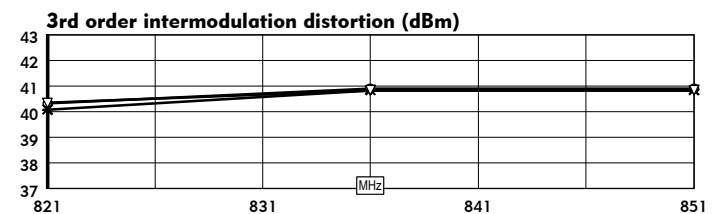
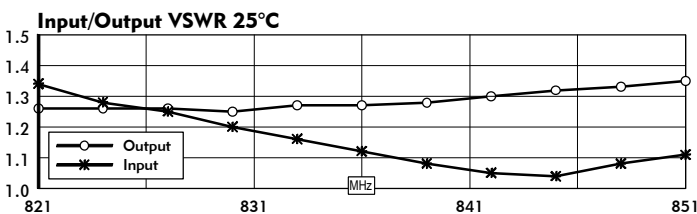
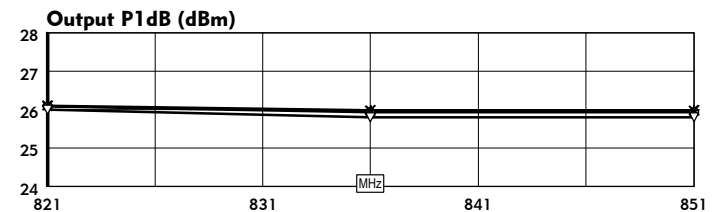
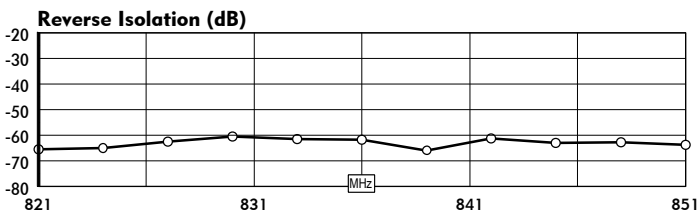
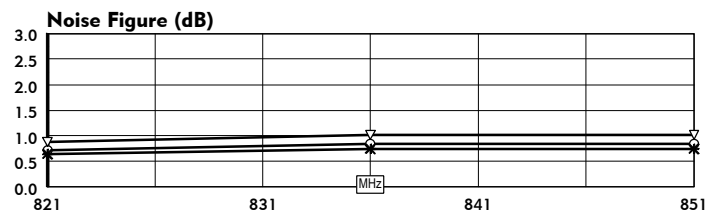
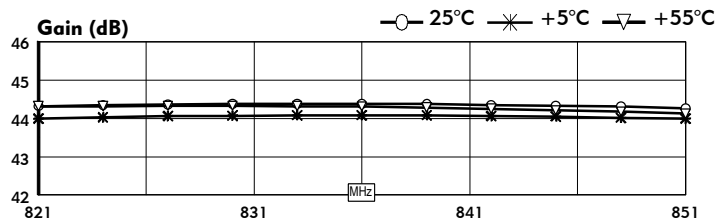


QBS-359

- **821-851 MHz frequency band**
- **NF typically < 1dB overtemp**
- **High 3rd OIP typically 40dBm overtemp**

Parameters	Guaranteed	Guaranteed	Units
	25°C	+5 to +55°C	
Frequency range	821 - 851		MHz
Small signal gain	44.0 ± 0.5		dB
Gain vs. temperature		+0.5/-0.5	dB Max
Gain flatness	1.0	1.0	dB Max p-p
Reverse isolation	55	55	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	+38	+37	dBm Min
2nd Order			dBm Min
Noise figure	1.2	1.4	dB Max
DC supply voltage*	24		Vdc
DC supply current	230	230	mA Max
Gain vs. Vdc			dB/Volt Max
Package/Housing	19437 (E52-19437)		

*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
821	-16.7	91.3	44.3	146.8	-68.2	-62.5	-19.0	28.3
830	-20.9	78.2	44.4	131.8	-62.6	-138.1	-19.2	9.7
833	-22.7	76.4	44.4	126.8	-63.5	63.3	-18.7	5.3
836	-25.3	51.1	44.4	121.9	-62.0	136.2	-18.7	-3.1
839	-28.5	27.7	44.4	117.1	-66.9	-160.0	-18.4	-6.8
842	-33.5	6.3	44.3	112.1	-62.6	166.7	-17.9	-13.4
845	-37.2	-53.0	44.3	107.3	-63.6	-16.7	-17.4	-18.5
848	-29.0	-48.7	44.3	102.4	-65.6	133.8	-17.2	-22.0
851	-25.6	-62.1	44.3	97.6	-65.5	-127.7	-16.6	-26.7

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+30.0 Vdc
Pulse (transient)	+30.0 Vdc
Temperature	
Operating	-54 to +71°C
Storage	-62 to +125°C