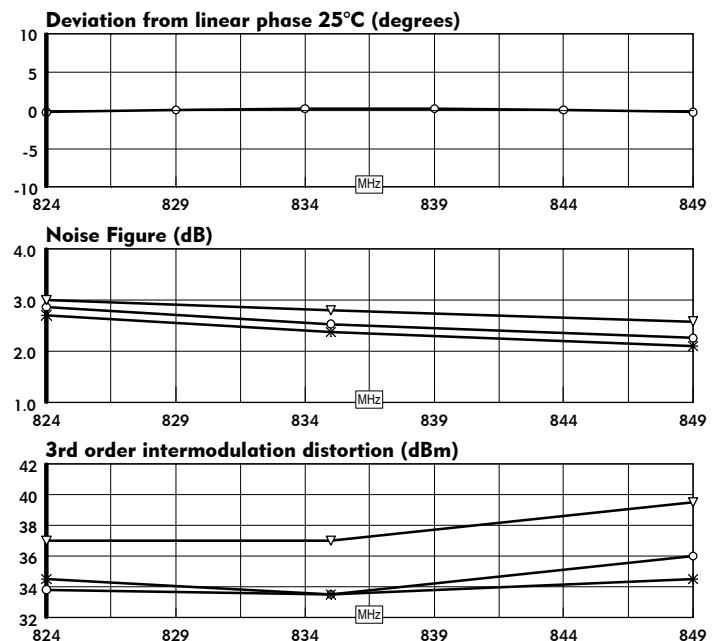
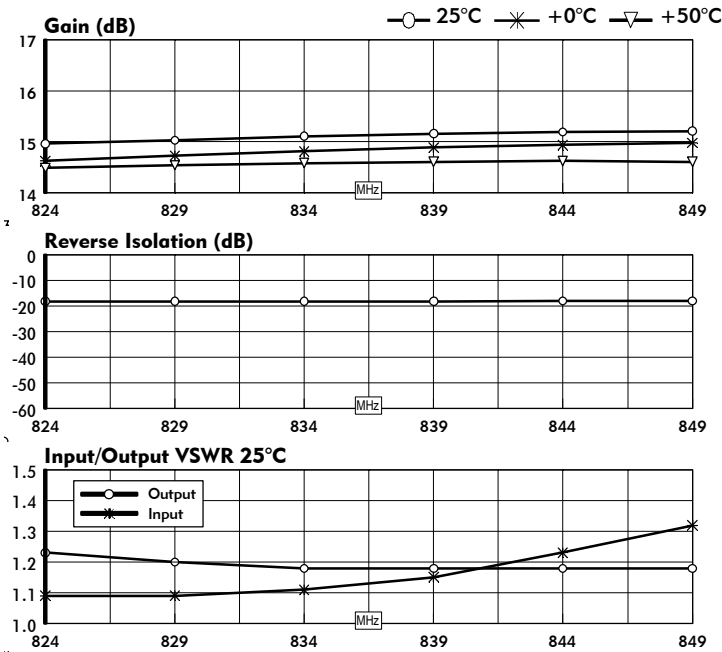


## QBS-159

- **824-849 MHz bandwidth**
- **High intercept points**
- **Low noise figure**

Parameters	Guaranteed	Guaranteed	Units
	25°C	+0 to +50°C	
Frequency range	824 - 849		MHz
Small signal gain	15.0 ± 0.5		dB
Gain vs. temperature		+0.5/-1.0	dB Max
Gain flatness	0.7	0.7	dB Max p-p
Reverse isolation	17	17	dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression			dBm Min
Output intercept point			
3rd Order	+33	+33	dBm Min
2nd Order			dBm Min
Noise figure	3.0	3.0	dB Max
DC supply voltage*	18		Vdc
DC supply current	250	250	mA Max
Gain vs. Vdc			dB/Volt Max
Package/Housing	19069 (E52-19069)		

\*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
824	-30.0	107.2	15.0	-19.2	-18.3	-81.3	-20.6	42.5
829	-27.0	157.7	15.0	-25.2	-18.2	-85.0	-22.2	38.3
834	-26.3	161.8	15.1	-31.5	-18.2	-89.0	-22.8	33.2
839	-24.1	158.6	15.2	-38.0	-18.2	-92.9	-22.4	26.3
844	-20.5	153.5	15.2	-44.7	-18.1	-96.9	-21.9	16.8
849	-17.6	147.5	15.2	-51.6	-18.1	-101.4	-21.7	4.2

### ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining .....	+ 30.0 Vdc
Pulse (transient) .....	+ 30.0 Vdc
Temperature	
Operating .....	to °C
Storage .....	to °C