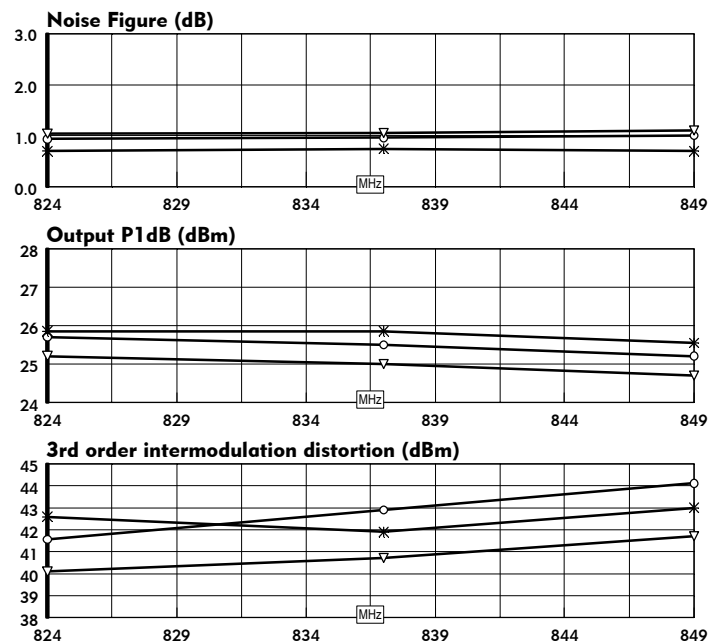
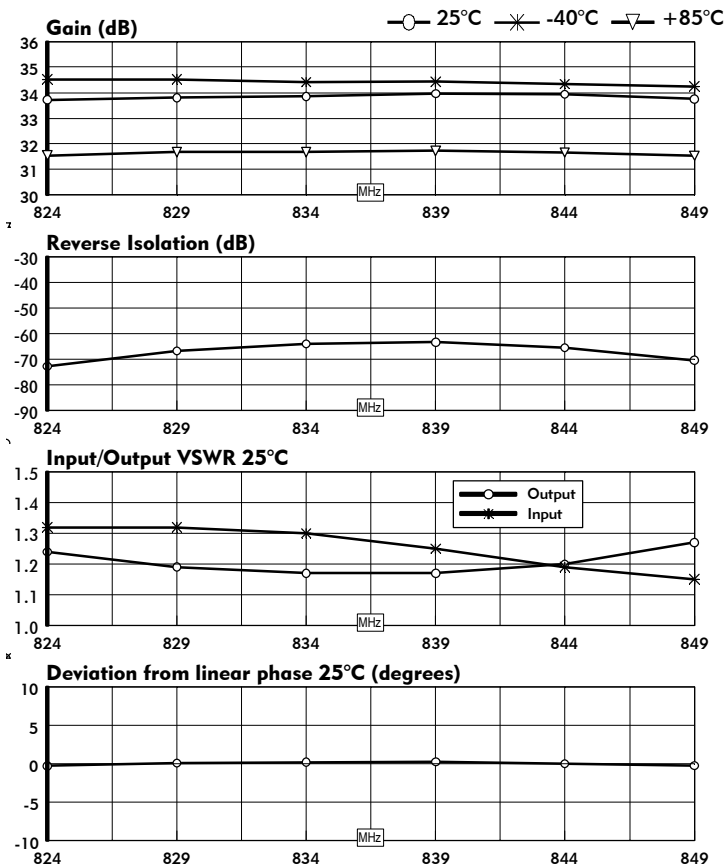


## QBS-142-2

- **824-849 MHz bandwidth**
- **19-31 Vdc**
- **High dynamic range**
- **Very low noise figure**
- **Regulation/Fault indication**

Parameters	Guaranteed	Guaranteed	Units
	25°C	-40 to +85°C	
Frequency range	824 - 849		MHz
Small signal gain	33.0 ± 1.0		dB
Gain vs. temperature		+1.0/-1.0	dB Max
Gain flatness	2.0	2.0	dB Max p-p
Reverse isolation	41		dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+22		dBm Min
Output intercept point			
3rd Order	+38	+38	dBm Min
2nd Order			dBm Min
Noise figure	1.5	1.5	dB Max
DC supply voltage*	19		Vdc
DC supply current	350	350	mA Max
Gain vs. Vdc			dB/Volt Max
Package/Housing	19105 (E52-19105)		

\*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	-17.2	68.2	33.7	30.1	-73.7	-160.5	-19.5	58.0
829	-17.2	77.9	33.8	17.5	-67.5	-179.0	-21.1	71.1
834	-17.7	82.8	33.8	4.7	-64.4	99.6	-22.2	90.2
839	-19.0	86.2	34.0	-7.9	-63.3	73.3	-22.4	107.1
844	-21.4	87.9	33.9	-20.3	-65.7	131.6	-21.2	115.1
849	-24.5	93.3	33.8	-32.7	-70.4	92.8	-18.7	118.4

### ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+31.0 Vdc
Pulse (transient)	+31.0 Vdc
Temperature	
Operating	-40 to +85°C
Storage	-55 to +100°C
Maximum input drive	1.0 Vrms