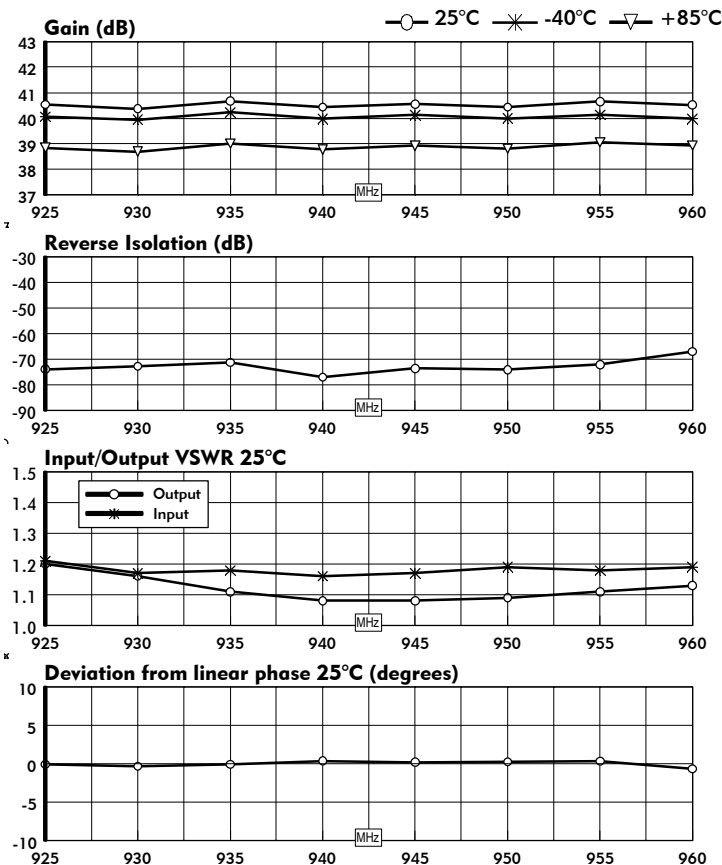


QBS-126-2

- **925-960 MHz bandwidth**
- **19-31 Vdc**
- **High dynamic range**
- **Excellent 3rd order intercepts**
- **Regulation/Fault indication**

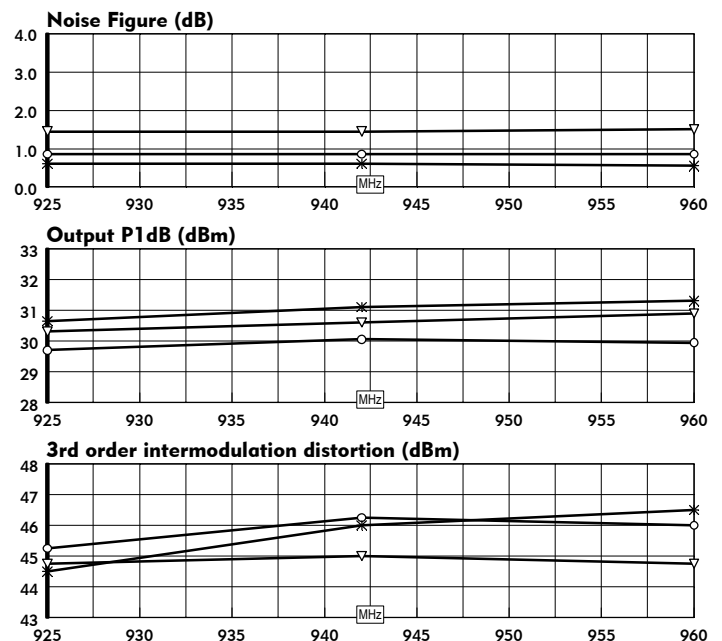
Parameters	Guaranteed	Guaranteed	Units
	25°C	-40 to +85°C	
Frequency range	925 - 960		MHz
Small signal gain	40.0 ± 1.0		dB
Gain vs. temperature		+1.0/-1.0	dB Max
Gain flatness	2.0	2.0	dB Max p-p
Reverse isolation	51		dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+28		dBm Min
Output intercept point	+42	+42	dBm Min
3rd Order			dBm Min
2nd Order			dBm Min
Noise figure	1.5	1.5	dB Max
DC supply voltage*	19		Vdc
DC supply current	750	750	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
925	-20.5	115.1	40.5	-51.9	-74.7	-45.5	-21.5	21.5
930	-22.0	99.5	40.4	-63.2	-72.8	-100.0	-24.2	13.5
935	-21.7	150.4	40.7	-73.6	-71.6	36.2	-28.8	3.9
940	-22.7	152.4	40.4	-84.2	-78.4	95.8	-29.9	-9.8
945	-22.3	135.4	40.6	-95.3	-75.4	5.6	-28.4	-31.8
950	-21.2	158.8	40.4	-106.1	-75.0	-85.1	-27.4	-62.3
955	-21.9	149.8	40.6	-116.9	-72.1	-135.1	-26.2	-105.5
960	-21.3	158.7	40.5	-128.9	-67.1	28.9	-24.3	-129.6



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