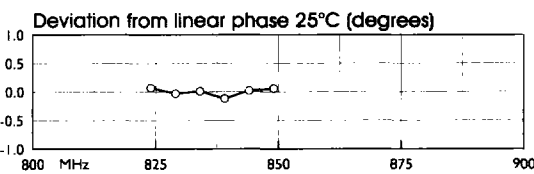
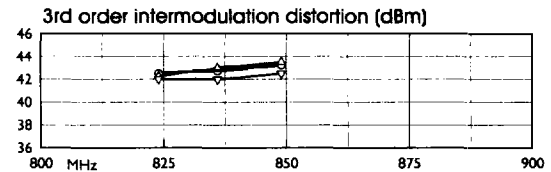
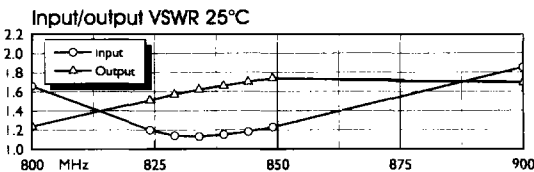
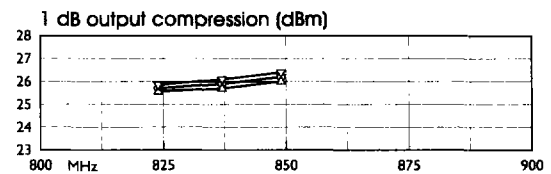
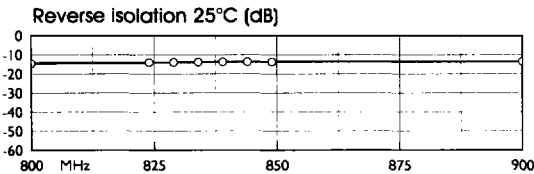
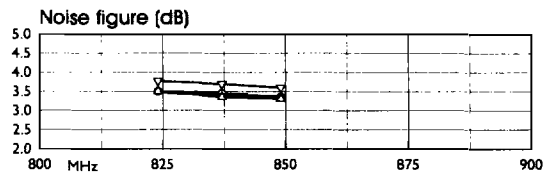
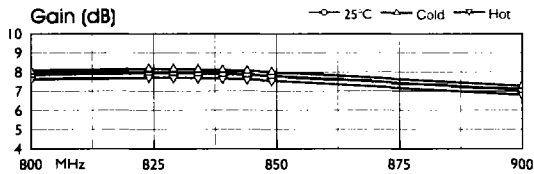


824 - 849 MHz Standard Wireless Amplifier

QBS-108

- **824-849 MHz bandwidth**
- **High dynamic range, > 125 dB**
- **Excellent 3rd order intercepts**
- **Small rugged connectorized package**

Parameters	Specification limit		Units
Temperature	+25	-40 to +85	°C
Frequency range	824 - 849		MHz
Small signal gain	8.0 ± 0.5		dB
Gain vs. temperature	+0.5/-0.5		dB Max
Gain flatness	1.0		dB Max p-p
Reverse isolation	12		dB Min
VSWR Input	2.0:1	2.0:1	Max
Output	2.0:1	2.0:1	Max
1 dB compression	+25	+24	dBm Min
Output intercept point			
3rd Order	+40	+39	dBm Min
2nd Order			dBm Min
Noise figure	5.0	5.5	dB Max
DC power @ 15 Vdc ± 1%	200		mA Max
Gain vs. Vdc			dB/Volt Max
Housing	19134 (see page P-36 for details)		



Typical S-Parameter Data

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
824	-21.9	137.4	8.0	-102.6	-14.0	-100.4	-13.9	84.9
829	-25.6	155.5	7.9	-107.6	-13.9	-105.2	-13.1	82.1
834	-25.8	13.0	7.9	-112.4	-13.8	-109.9	-12.6	78.8
839	-23.6	-147.4	7.9	-117.4	-13.8	-114.8	-12.1	75.1
844	-21.8	-134.2	7.9	-122.1	-13.7	-119.4	-11.7	71.3
849	-19.8	-127.5	7.8	-126.9	-13.7	-124.2	-11.4	67.3

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+17.0 Vdc
Pulse (transient)	+20.0 Vdc
Temperature	
Operating	-55 to +85°C
Storage	-55 to +125°C

A91-0108,0495, Revision Preliminary