

Power Amplifiers 20 Watts

Electrical Specifications ⁽¹⁾:

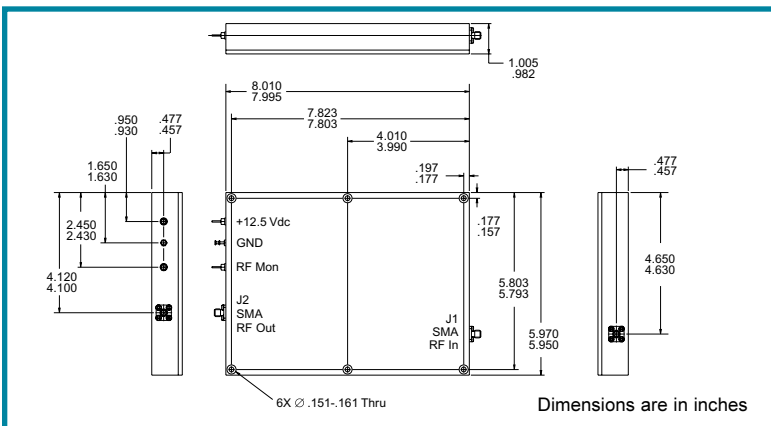
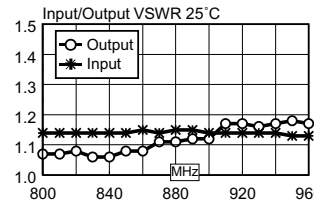
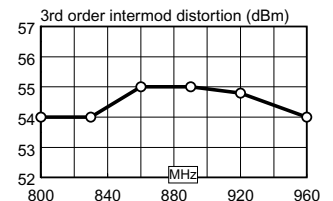
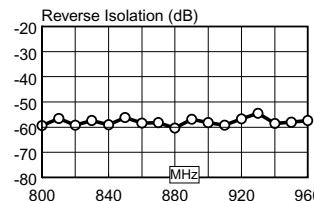
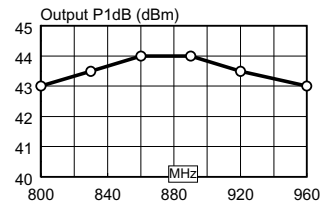
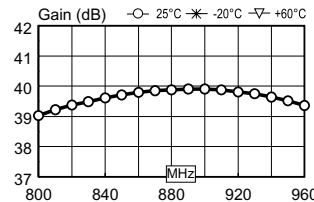
QBS-230

Parameter	Specification Limit	Units
Temperature	+25	°C
Frequency Range	800 - 960	MHz
Gain	39.0 ± 1.0	dB
Gain vs. Temperature		dB Max
Gain Flatness	2.0	dB Max p-p
Reverse Isolation	50	dB Min
VSWR Input	1.5:1	Max
VSWR Output	1.5:1	Max
1 dB Compression	+43	dBm Min
Output Intercept Point 3rd Order	+53	dBm Min
DC Power @ 12.5Vdc ± 1%	7000	mA Max
Housing	E52-19740	

Absolute Maximum Ratings	
Power Supply Voltage	
Sustaining	30.0 Vdc
Temperature	
Operating	-20 to +60°C
Storage	-55 to +125°C
Max Input Drive	1.25 VRMS

Notes:
1. Specifications are guaranteed when tested in a 50 Ohm system. Specifications indicated as typical are not guaranteed.

Typical S-Parameter Data									
MHz	S11		S21		S12		S22		Ang
	dB	Ang	dB	Ang	dB	Ang	dB	Ang	
800	-24.5	-130.9	39.0	134.3	-60.8	-178.0	-30.7	111.0	
830	-24.5	-130.9	39.5	84.3	-58.6	114.5	-31.7	101.9	
850	-24.7	-140.2	39.7	50.7	-57.7	90.8	-29.1	81.8	
870	-24.9	-145.9	39.8	17.1	-59.6	-159.5	-28.6	69.6	
890	-24.8	-151.0	39.9	-17.1	-57.4	55.2	-26.1	56.8	
910	-25.1	-156.5	39.9	-51.6	-60.2	160.6	-23.0	82.3	
930	-25.4	-160.7	39.7	-86.1	-54.9	92.6	-23.1	67.7	
950	-25.5	-167.6	39.5	-121.2	-59.6	33.4	-22.3	55.7	
960	-25.6	-166.8	39.4	-139.1	-59.2	30.0	-22.9	83.3	



Specifications subject to change without notice.