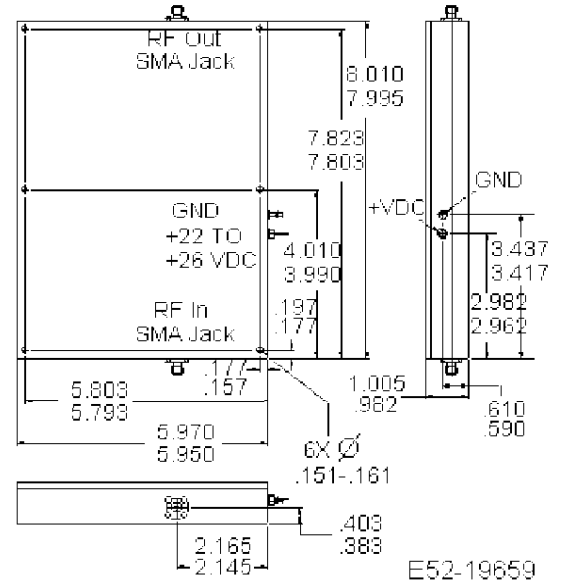


QBS-227 Amplifier Performance Specifications

Specifications	Min/Max +25 °C	Min/Max -20 to +60 °C
Frequency (MHz)	800 – 960	
Gain (dB)	42.0 ±3.0	+2.0 / -2.0
Gain Flatness (dB)	+1.5	
Noise Figure (dB)		
Power Out (dBm)	+39.0	+38.0
3rd Order Int (dBm)	+49.0	+48.0
2nd Order Int (dBm)		
Reverse Isolation (dB)	+60.0	+60.0
Input VSWR	2.0:1	2.0:1
Output VSWR	2.0:1	2.0:1
DC Current (mA)	+3500.0	+3600.0
DC Voltage (V)	+24.0	
Gain vs. Vdc (dB/V)		

Mechanical Outline Drawing



Absolute Maximum Ratings	
Sustained Voltage (Vdc)	+30.0
Pulsed (Transient) Voltage (V)	+30.0
Operating Temperature	-20 to +60 °C
Storage Temperature	-55 to +125 °C
Maximum Input Drive (Vrms)	+1.3
Thermal Rise, junction-case	

Frequency (MHz)	S11		S21		S12		S22	
	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle
800	-24.5	89.0	41.3	27.4	-56.0	-124.0	-14.5	-37.1
810	-25.8	67.3	41.3	3.3	-60.5	164.0	-16.2	-47.4
820	-24.7	64.4	41.3	-21.2	-59.4	-178.0	-18.9	-60.3
830	-25.0	55.8	41.3	-46.0	-64.2	8.3	-17.5	-65.1
840	-27.2		41.4	-71.2	-61.5	-147.0	-22.5	-75.8
850	-26.5	43.5	41.3	-97.0	-52.6	-98.3	-24.4	-134.0
860	-29.7	40.8	41.2	-123.0	-56.9	145.0	-28.1	-145.0
870	-29.3	55.6	41.1	-148.0	-59.1	26.9	-25.6	125.0
880	-27.5	59.1	41.1	-173.0	-53.3	-9.1	-27.2	131.0
890	-26.0	50.3	41.3	160.0	-68.1	93.5	-20.5	89.4
900	-25.8	46.9	41.3	132.0	-54.3	27.7	-19.9	112.0
910	-25.4	28.5	41.2	104.0	-71.1	-32.2	-21.0	93.4
920	-25.0	20.3	41.1	76.3	-60.0	-60.0	-21.6	51.8
930	-25.8	17.1	41.1	48.0	-62.4	46.0	-20.4	43.6
940	-26.7	4.8	41.0	19.0	-53.1	156.0	-23.3	30.9
950	-26.7	-3.0	40.9	-10.4	-60.5	-73.8	-30.4	-14.9
960	-27.0	-1.2	40.9	-40.6	-61.8	-76.2	-22.4	-12.5

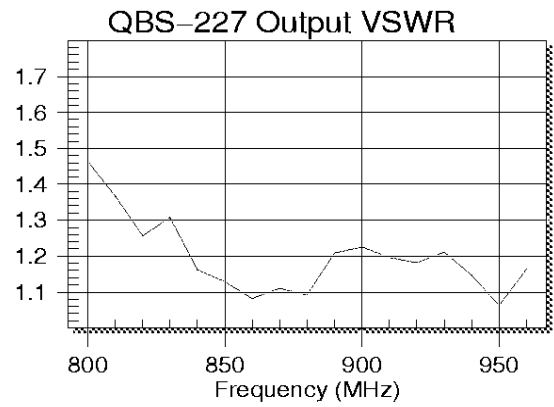
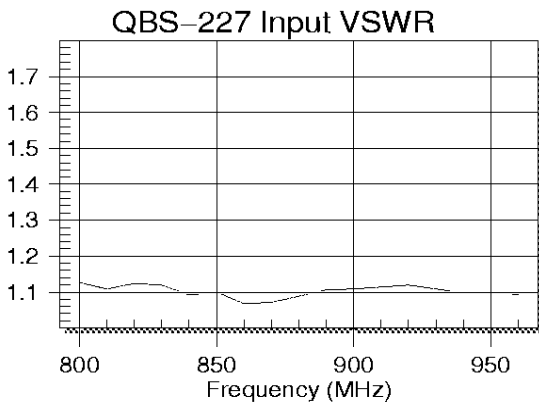
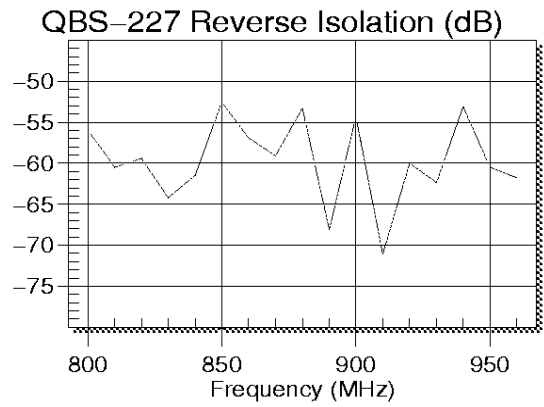
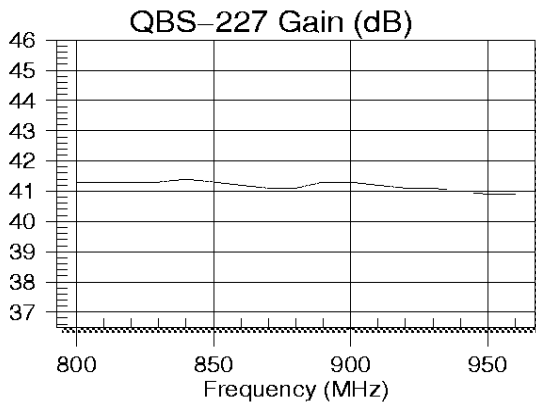
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QBS-227 Amplifier Performance Specifications



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