

340 - 460 MHz Feedforward Amplifier

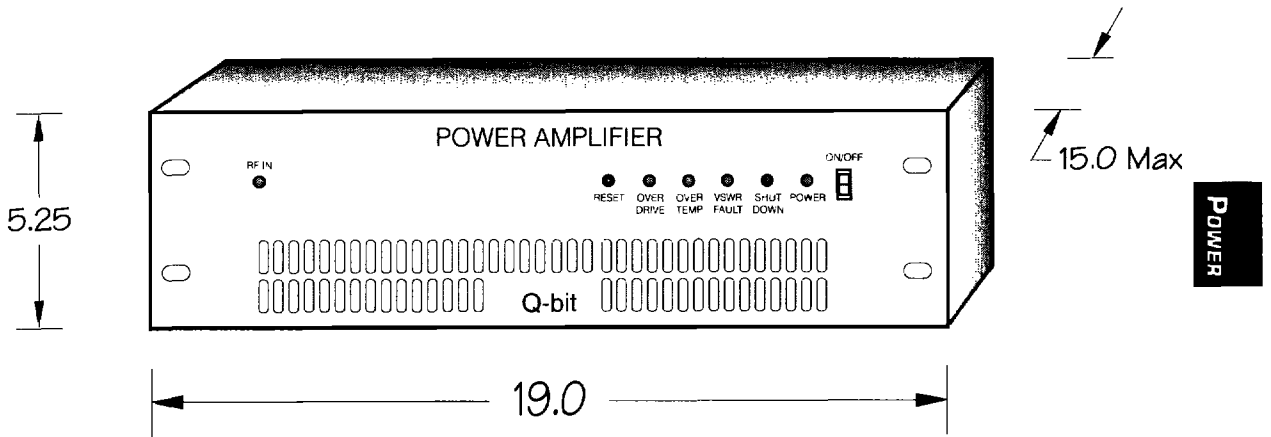
QBS-903

- **Multi carrier linear transmit amplifier**
- **Stable operation over temperature**
- **Intermodulation products are typically better than -60 dBc**
- **Coverage for rural wireless telephone bands**

Parameters	Specification Limit	Units
CASE TEMPERATURE	+25 -20 to +55	°C
FREQUENCY RANGE	340 - 460 ¹	MHz
GAIN	56.0 ± 0.5 ²	dB Min
GAIN FLATNESS	1.0	dB MAX p-p
IMD (6 - 1 watt tones)	-55	dBc Min
Dynamic Range	30	dB Min
EFFICIENCY (6 - 1 WATT TONES)	4.0	% TYPICAL
DC POWER @ 28 Vdc ± 1%	5000	mA Max
HOUSING	PLEASE CONTACT FACTORY FOR DETAILS	

Notes

- 1 Factory adjustable in 2 MHz segments (current models 343.3 - 345.3 and 458.3 460.3).
- 2 Gain adjustable -10 dB via a recessed, rear panel screwdriver slot.



QBS-903 TYPICAL

MHz	S11		S21		Group Delay (nS)
	dB	ANG	dB	ANG	
318.0	-23.6	14.1	49.4	117.4	56.48
320.0	-23.7	14.1	50.5	76.7	-45.48
330.0	-24.0	8.3	55.4	-119.5	-41.33
340.0	-23.0	-2.7	55.9	29.3	50.43
343.1	-22.6	-4.1	55.9	-27.0	50.71
344.1	-23.1	-6.7	56.0	-45.2	49.65
345.1	-23.9	-6.7	56.0	-63.1	51.48
350.0	-23.3	-10.7	55.1	-153.9	-46.70
360.0	-23.2	-16.9	51.8	14.2	-46.25
370.0	-23.4	-22.3	46.6	-179.2	-44.38
380.0	-23.4	-30.6	38.7	-19.4	

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	30 Vdc
Pulse (transient)	35 Vdc
Temperature	
Operating	0 to +55°C
Storage	-20 to +80°C
Maximum Input Level	+20 dBm

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