

7100 & 8100 SERIES - RESONATOR OSCILLATOR

TECHNICAL FEATURE

FEATURES

- High stability, fixed frequency source
- 0.75 to 2.9 GHz frequency coverage
- Mechanical and electrical tuning options

PARAMETER	8100 Series (Commercial)	7100 Series (Military)
Frequency Range	0.75 – 2.9 GHz	0.75 – 2.9 GHz
Frequency Stability	±.03%	±.05%
Power Output	+8 dBm min	+8 dBm min
Poer Stability vs. Temperature	±0.8 dB	±1.0 dB
Harmonics	-15 dBc, maximum	-15 dBc, maximum
Load Pulling 2:1 VSWR	.05% maximum	.08% maximum
Supply Pushing	.04%/V maximum	.05%/V maximum
Input Voltage	+12 to +15 Vdc	+12 to +15 Vdc
Input Current	50 mA typ	50 mA typ
Temperature Range	0°C to +60°C	-45°C to +85°C
Tuning	None*	None*
Mechanical Dimensions	1.50" x 1.60" x 0.65"	

Notes: *Mechanical tuning to 10% and electrical tuning to 0.5% available as options

HIGH PERFORMANCE MODEL			
PARAMETER	8110 Series (Commercial)	7110 Series (Military)	Options
Frequency Range	0.75 – 2.9 GHz	0.75 – 2.9 GHz	0.75 – 2.9 GHz
Frequency Stability	±.03%	±.06%	±.01%
Power Output	+16 dBm min	+15 dBm min	To +25 dBm
Poer Stability vs. Temp	±0.8 dB	±1.0 dB	±0.4 dB
Harmonics	-35 dBc	-35 dBc	To -60 dBc
Load Pulling 2:1 VSWR	.03%	.04%	.001%
Supply Pushing	<2 kHz/V	<2 kHz/V	<2 kHz/V
Input Voltage	+12 to +15 Vdc	+12 to +15 Vdc	±5 to ±24 Vdc
Input Current	95 mA typ	95 mA typ	Depends on options
Temperature Range	0°C to +60°C	-45°C to +85°C	-45°C to +100°C
Tuning	None	None	Mechanical to 10% Electrical to .5%
Mechanical Dimensions	1.50" x 2.50" x 0.65"		

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