

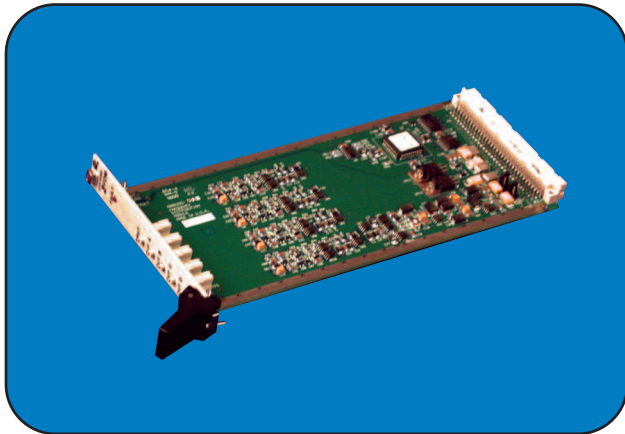
Time and Frequency

Sine Wave Generator Module for Models 9100 & 9300

Model: 9109



Application - Defense (Military) ■ SatCom ■ Wireless



Model 9109 SRG

The Model 9109 SRG module generates four 5 MHz reference frequencies derived from the selected GPS Reference module's 10 MHz reference frequency.

Specifications:

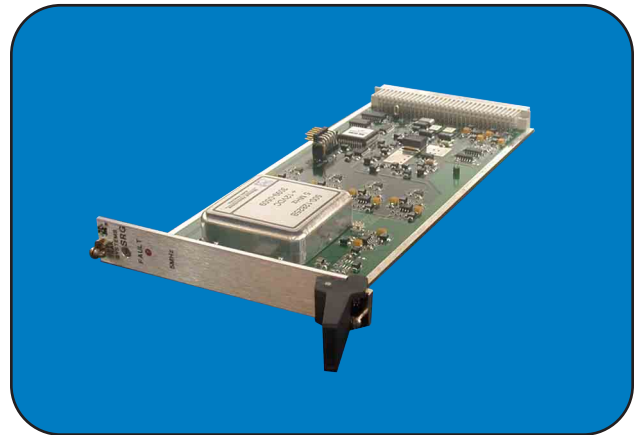
Output Frequency:	5 MHz
Stability Reference:	Same as selected 10 MHz reference
Spurious Harmonic:	< -50 dBc
Non-Harmonic:	< -80 dBc
Level:	Fixed, 1 Vrms (+13 dBm), ± 2 dB
Drive:	50Ω
Outputs:	4 Each

Phase Noise: D-OXCXO

10 Hz	-120 dBc
100 Hz	-125 dBc
1 kHz	-130 dBc
10 kHz	-135 dBc
100 kHz	-135 dBc

Phase Noise: Rubidium

10 Hz	-100 dBc
100 Hz	-125 dBc
1 kHz	-130 dBc
10 kHz	-135 dBc
100 kHz	-135 dBc



Model 9109 Low Phase Noise Sine Wave Generator

The Model 9109-4, -5 Low Phase Noise Sine Wave Generator module is designed for critical reference frequency applications requiring low phase noise and low spurious content. In this module, a 5 MHz or 10 MHz low phase noise ovenized crystal oscillator is phase locked to the Model 9100 system reference, effectively isolating system noise, and providing excellent phase noise and spurious performance.

Phase Noise:	1 Hz carrier offset, -85 dBc
	5 MHz and 10 MHz
	10 Hz carrier offset, -115 dBc
	100 Hz carrier offset, -145 dBc
	1 KHz carrier offset, -150 dBc
	10 KHz carrier offset, -150 dBc
	100 KHz carrier offset, -150 dBc
Spurious:	≥ -100 dBc
Harmonic Distortion:	-35 dBc
Output Voltage:	1.0 V RMS (+13 dBm), ±2 dB, Fixed output levels
Isolation:	-70 dBc, output to output
Outputs:	Four on BNC female connectors,
Impedance:	50Ω
Models:	9109-4 5 MHz Output
	9109-5 10 MHz Output

Specifications subject to change without notice.