

101.0mm x 37.0mm x 60.5mm

## **Features**

- 10MHz Frequency
- ±0.3ppb Frequency Stability
- Sinewave

## Applications

- Military Communication Equipment
- Base Stations
- Test Equipment
- Synthesizers
- Digital Switching



## **Part Number**



## **SRO30S - 10.000M**

<b>Electrical Parame</b>	ters	Units	Minimum	Typical	Maximum	Remarks
Frequency		MHz		10.0		
Frequency Tolerance at +25°C		ppb	-0.05		+0.05	
Frequency Stability		ppb	-0.3		+0.3	
Short Term Stability	1 second	ppb	-0.003		+0.003	
	10 Seconds	ppb	-0.003		+0.003	
	100 Seconds	ppb	-0.002		+0.002	
	1 hour	ppb	-0.001		+0.002	
Aging	Day	ppb	-0.003		+0.003	
	Month	ppb	-0.04		+0.04	
Magnetic Field Sensitivity (Gauss)		ppb	-0.02		+0.02	
Retrace		ppb	-0.02		+0.02	
Operating Temperature		°C	-40		60	
Storage Temperature		°C	-40		90	
Supply Voltage*		V		12.0		*Will operate over 12V to 15V Range
Power Consumption Start up @ 25°C		Α			1.8	22W @ 12V
Power Consumption Steady State		А			0.5	6W @ 12V
Warm-up Time		Minutes		8		@ 25°C
Pulling		ppb	-2.0		+2.0	
Control Voltage		V		2.5		
Input Impedance		Ω	10k			
Output Compatibility				Sine		
Drive Capability		Ω		50		
Output Level		dBm	6	8	10	
Phase Noise	@ 1Hz	dBc/Hz		-113		
	@ 10Hz	dBc/Hz		-138		
	@100Hz	dBc/Hz		-152		
	@1kHz	dBc/Hz		-155		
	@10kHz	dBc/Hz		-158		
Harmonics		dBc			-30	
Spurious		dBc			-100	

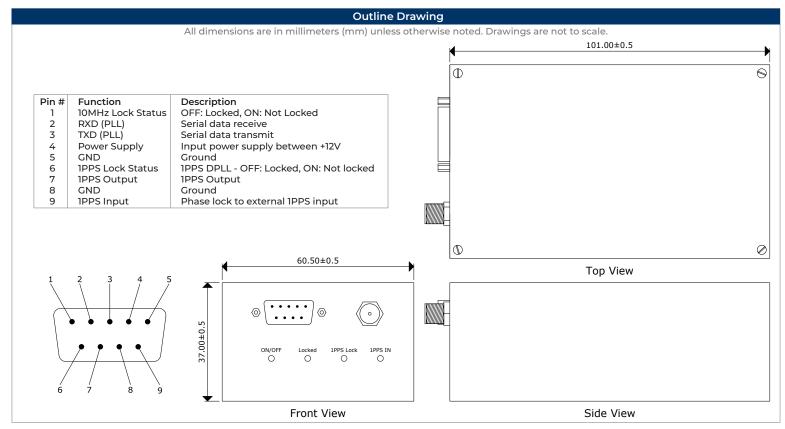
Note: The oscillator will detect if no control voltage is applied to Pin 7 and will automatically set the control voltage internally to 2.5V.

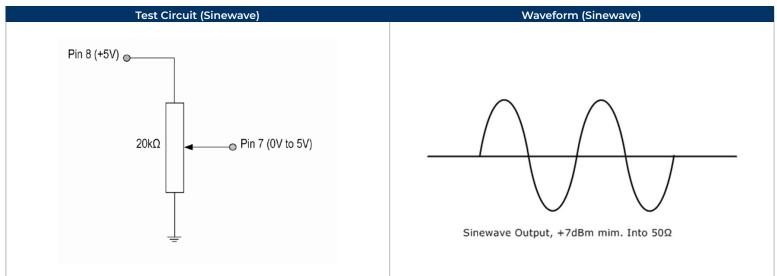
Note: Rx and Tx connections for RS232 communication of the status of the oscillator.

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Specifications							
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	IEC60068-2-27, Test Ea: Acceleration of 50G peak Amplitude for 11ms duration.				
Atmospheric Pressure	-60M to 4000M: 1x10 <sup>-13</sup> Mbar Max	Vibration	IEC 600068-2-06, Test Fc: 10Hz-55Hz 1.5mm				
ЕМІ	Compliant to FCC Part 15, Class B						