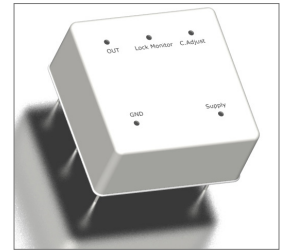



Features
<ul style="list-style-type: none"> <li>• 10MHz Frequency</li> <li>• ±0.3ppb Frequency Stability</li> <li>• Sinewave</li> <li>• Sub Miniature Atomic Clock (SMAC)</li> </ul>

Applications
<ul style="list-style-type: none"> <li>• Military Communication equipment</li> <li>• Base Stations</li> <li>• Test Equipment</li> <li>• Synthesizers</li> <li>• Digital Switching</li> </ul>



Part Number
<b>SRO10S - 10.000M</b>

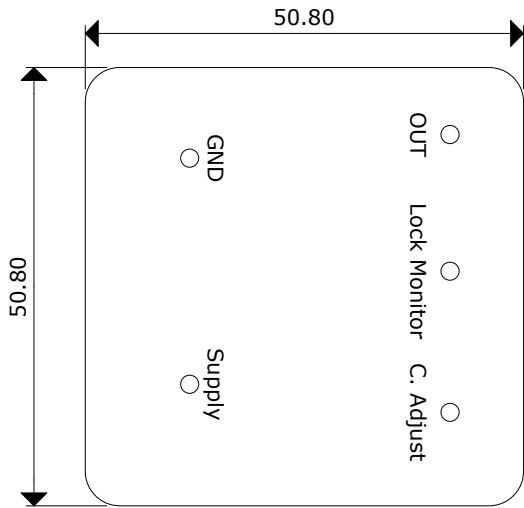


Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency	MHz		10.0		
Frequency Tolerance at +25°C	ppb	-0.05		+0.05	
Short Term Stability	1 second	ppb	-0.08	+0.08	
	10 Seconds	ppb	-0.03	+0.03	
	100 Seconds	ppb	-0.008	+0.008	
Aging	Day	ppb	-0.005	+0.005	
	Month	ppb	-0.05	+0.05	
Magnetic Field Sensitivity (Gauss)	ppb	-0.04		+0.04	
Retrace	ppb	-0.02		+0.02	
Operating Temperature	°C	-30		60	
Storage Temperature	°C	-55		85	
Supply Voltage*	V	12.0		18.0	
Input Power	W		6.0		@ 12V @ 25°C 1.2A
Warm-up Time	Minutes		5		@ 25°C
Pulling	ppb	-5.0		+5.0	
Control Voltage	V	0		5.0	
Input Impedance	Ω	10k			
Output Compatibility			Sine		
Drive Capability	Ω		50		
Output Level	dBm	7		13	
Phase Noise	@ 1Hz	dBc/Hz	-67		
	@ 10Hz	dBc/Hz	-95		
	@ 100Hz	dBc/Hz	-127		
	@ 1kHz	dBc/Hz	-140		
Harmonics	dBc			-40	
Spurious	dBc			-100	

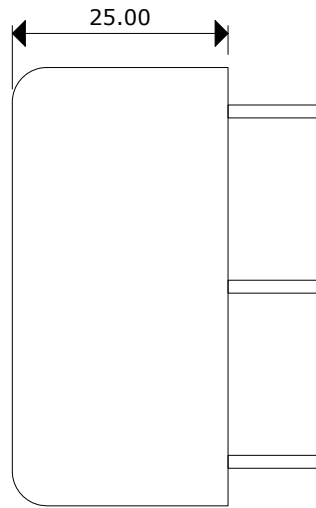
**Outline Drawing**

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

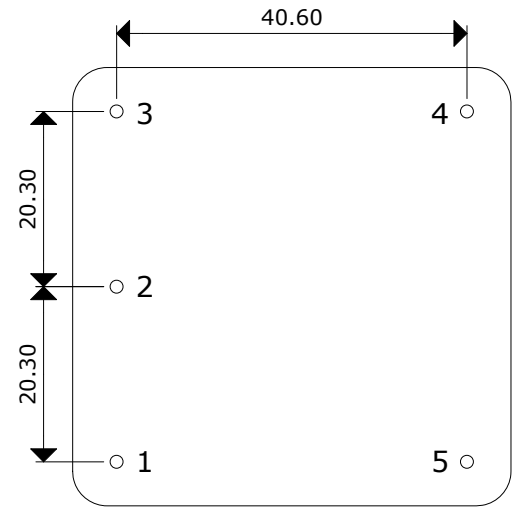
Pin #	Function
1	Input Frequency Control
2	Lock Monitor
3	Output Signal
4	Ground (Signal & Supply)
5	Input Supply (+)



Top View

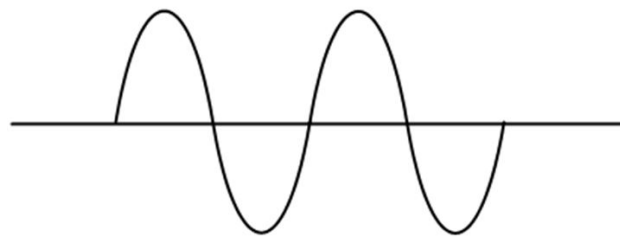


Side View



Bottom View

**Waveform (Sinewave)**



Sinewave Output, +7dBm mim. Into 50Ω

**Environmental Specifications**

Case Temperature	<45°C (After 1 Hour, Ambient Temp 25°C)	Temp Coefficient (Ambient)	5x10 <sup>-10</sup> (0-50°C)
MTBF	100,000 Hours	Shock / Vibration	GR-CORE-63, 4.5.2/4, Locked to 1.0g
EMI	Compliant to FCC Part 15 Class B	Environmental Health	RoHS