

MV-OS9622-3627C is a Oven Controlled Crystal Oscillator (OCXO) . This OCXO is a Low G-Sense, Low Noise, 12V Euro Case, SINE Wave output and comes in a Spin, Through Hole, Resistance Welded 36 x 27mm package. This device contains an internal voltage regulator resulting in excellent power supply rejection ratio.

The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency		100		MHz
Operating Temperature		-10/+70 to -40/+85		°C
Package Size		36 x 27 x 16		mm
Frequency Stability				
Stability over Temp		±25 to ±20		ppb
Initial Accuracy (at 25°C, 15min)			±200	ppb
Power Supply Stability (±5% Change)			±20	ppb
Load Stability (±5% Change)			±50	ppb
Aging / day			±3	ppb
Aging / year			±300	ppb
Aging - 10 years			±1200	ppb
Warm Up (10 Min) - Ref to Stab @ 1hr / 25°C			±100	ppb
G-Sensitivity		0.5	1.5	ppb/g
Supply				
Supply Voltage (Vdd)	11.4	+12	12.6	V
Supply Current (Warm Up)			350	mA
Power Consumption (Steady State @+25°C)			1.5	W
Tuning				
Electrical Frequency Control (EFC)		±150		ppb
Slope		Positive		
Control Voltage to reach Pull Range	0	+4.0	Vref	V
Vref - Reference Voltage	+7.6	+8.0	+8.4	V
Linearity		10		%
Control Voltage Impedance	20			KΩ
Output				
Output Signal		SINE Wave		
Output Power	+7	+9	+11	dBm
Output Load		50		Ω
Harmonics			-30	dBc
Spurious			-70	dBc
Phase Noise & Jitter				
Phase Noise: (100 MHz)				
10 Hz offset		-95	-90	dBc/Hz
100 Hz offset		-125	-120	dBc/Hz
1kHz offset		-146	-150	dBc/Hz
10kHz offset		-158	-155	dBc/Hz
100kHz offset		-158	-155	dBc/Hz

Notes:

- 1 Warm Up: Stability referenced to frequency after 1 hour of operation at 25°C.
- 2 Initial tolerance specified at time of shipment and at nominal EFC

Maximum Ratings

Storage Temp	-55°C to 105°C
Shock (MIL-STD-202, Method 213, Test Condition J)	30g, 11ms, half-sine (non-operating)
Vibration (MIL-STD-202, Method 201)	0.06" Total p-p, 10 to 55 Hz (non-operating)
Humidity (MIL-STD-202, Method 103, Test Condition A)	95% RH @ +40°C, non-condensing, 240 hours

Maximum Ratings Notes:

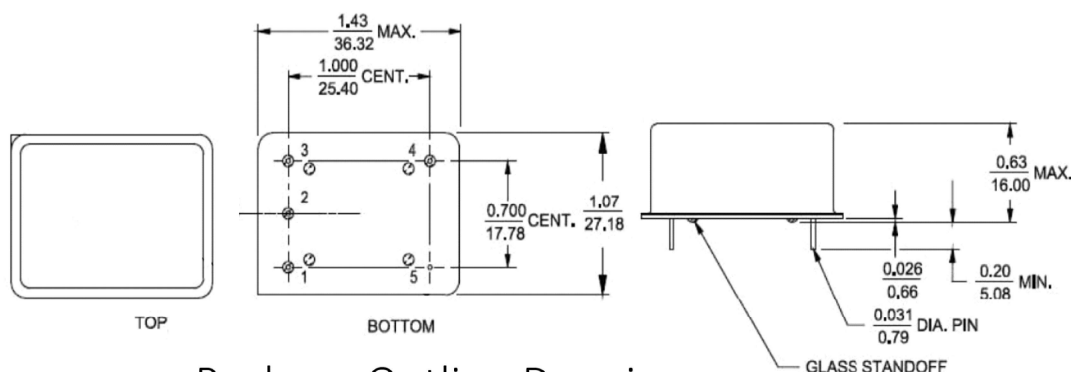
- 1 Stresses in excess of the absolute maximum ratings can permanently damage the device.
- 2 Exposure to absolute maximum ratings for extended periods may adversely affect device reliability.

Package Information

Pin #	Function
Pin 1	Vc = Control Voltage or NC
Pin 2	Reference Voltage (Vref) or NC
Pin 3	Vdd = Supply Voltage
Pin 4	OUT = Output
Pin 5	GND = Ground

Package and Assembly Notes:

- 1 For best signal integrity, do not run traces beneath the part.
- 2 Ensure the next layer under the part is ground plane.



Package Outline Drawing

Handling and Construction

Package Construction	5pin, Through Hole, Resistance Welded
RoHS compliance	100% ROHS 6 compliant
Washable	yes
Moisture Sensitivity Level	MSL 1
ESD, Human Body Model	500V
ESD, Charge Device Model	500V

Ordering Information

MV-OS9622-3627C - Z x x Z - 100M0000

OCXO, SINE Wave

36 x 27 x 16mm, 5 Pins

① ② ③ ④

Frequency

① Voltage

Z: 12 V

② Temp Range

J: -10/+70 °C

H: -20/+70 °C

K: -40/+85 °C

③ Temp Stability

E: ±25 ppb

F: ±20 ppb

④ EFC

Z: ±150 ppm