

MV-MC661-9775E is a Temperature Compensated Oscillator (TCXO) . This TCXO is digital temperature compensated, CMOS output device and comes in a FR4 base with metal cover 9.7x7.5mm package.

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	5		52	MHz
Operating Temperature		-10/+70 to -40/+85		°C
Package Size		9.7 x 7.5 x 2.1		mm
Frequency Stability				
Stability Over Temperature		±0.010 to ±0.005		ppm
Initial Accuracy (25°C ±2°C)			±0.15	ppm
Power Supply Stability (±5% Change)			±0.01	ppm
Load Stability (±10% Change)			±0.01	ppm
Aging (1st year)			±0.1	ppm
Aging (10 years)			±0.3	ppm
G-Sensitivity			0.01	ppb/g
Supply				
Supply Voltage (Vdd)	3.14	+3.3	3.47	V
Supply Current		65	80	mA
Tuning				
Tuning (Pull) Range		No Tuning		ppm
Output				
Output Signal		CMOS		
Output Level - Logic High	Vdd x 0.9			V
Output Level - Logic Low			Vdd x 0.1	V
Output Load		15 pF		
Output Rise and Fall Time			6	ns
Duty Cycle	45		55	%
Phase Noise & Jitter				
Phase Noise: (10 MHz)				
1 Hz offset		-81		dBc/Hz
10 Hz offset		-110		dBc/Hz
100 Hz offset		-130		dBc/Hz
1kHz offset		-150		dBc/Hz
10kHz offset		-154		dBc/Hz
100kHz offset		-154		dBc/Hz
Jitter				
RMS Jitter: (12kHz - 20MHz) - 10 MHz		0.30		ps

Maximum Ratings

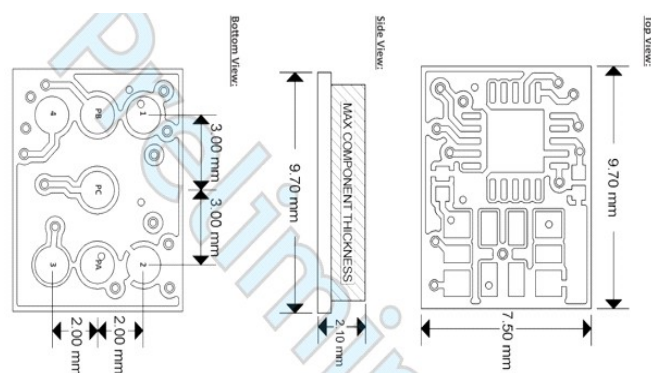
Storage Temp	-55°C to 125°C
Supply Voltage	0V to +4.0V

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	GND = Ground
Pin 3	OUT = Output
Pin 4	Vdd = Supply Voltage


Handling and Construction

Package Construction	FR4 base with metal cover
Contact Pads	Gold over Nickle
Moisture Sensitivity Level	MSL 1
ESD, Human Body Model	500V
ESD, Charge Device Model	500V

Ordering Information
MV-MC661-9775E -

TCXO, CMOS

9.7 x 7.5 x 2.1mm, 7 Pins

B x x x

① ② ③ ④

- xxMxxxxxx

Frequency

① Voltage

B: 3.3 V

② Temp Range

J: -10/+70 °C

H: -20/+70 °C

K: -40/+85 °C

③ Temp Stability

X: ±0.010 ppm

Z: ±0.005 ppm

④ Tuning Range

X: No Tuning