

MV-TS699Z-2212X is a Temperature Compensated Crystal Oscillator (TCXO) . This TCXO is digital temperature compensated, Clipped Sine Wave output device and comes in a FR4 base with metal cover 21.3x11.7mm 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		100		MHz
Operating Temperature		-40/+70		°C
Storage Temperature		-45/+95		°C
Frequency Stability				
Stability Over Temperature		±2.0		ppm
Power Supply Stability (±5% Change)			±0.2	ppm
Load Stability (±10% Change)			±0.2	ppm
Long Term Stability			±1.0	ppm/year
Package Size		21.3 x 11.7 x 4.5		mm
Supply				
Supply Voltage (Vdd)		3.3		V
Supply Current			30	mA
Tuning				
Trimmer Adjustment (manual)	± 3.0			ppm
Output				
Output Signal		Clipped Sine Wave		
Output Level	0.8		3.2	V
Output Load		20KΩ 5pF		
Phase Noise & Jitter				
Phase Noise: (100 MHz)				
1kHz offset		-135		

Maximum Ratings

Storage Temp	-45°C to 95°C
Supply Voltage	0V to +5.0V

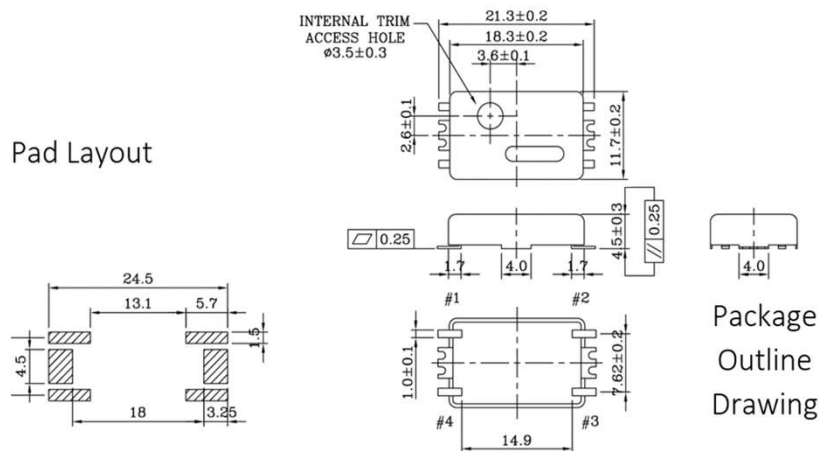
Maximum Ratings Notes:

- 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	NC = Make No Connection
Pin 2	GND = Ground
Pin 3	OUT = Output
Pin 4	Vdd = Supply Voltage

Pad Layout



Package Outline Drawing

Handling and Construction

Package Construction	FR4 base with metal cover
ESD, Human Body Model	500V
ESD, Charge Device Model	500V

Ordering Information

MV-TS699Z-2212X - B Z N Z - 100M0000

TCXO, Clipped Sine Wave
21.3 x 11.7 x 4.5mm, 4 Pins

① ② ③ ④

Frequency

① Voltage

B: 3.3 V

② Temp Range

Z: -40/+70 °C

③ Temp Stability

N: ±2.0 ppm

④ Tuning Range

Z: ± 3.0 ppm