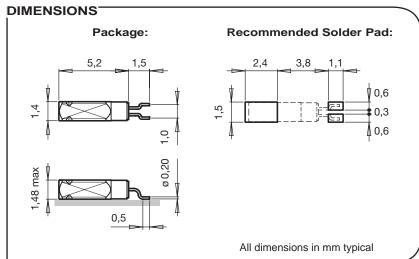


MS3V-T1R

Tuning Fork Crystal 32 kHz - 100 kHz





APPLICATIONS

IoT Metering Wearables Health Care Mobile Phones Consumer Electronics

DESCRIPTION

The MS3V-T1R is a low frequency surface mount technology Quartz Crystal Unit that incorporates a tuning fork Quartz Crystal Resonator. It operates under vacuum in a hermetically sealed square-bodied metal can package.

FEATURES

High stability is guaranteed by hermetic sealing.

High shock and vibration resistant.

Small, proven surface mount technology package for reflow soldering. Excellent lead coplanarity for surface mounting.

RoHS-compliant.

ELECTRICAL CHARACTERISTICS AT 25°C

Standard Frequency	1)	FL	32.768	kHz
Load capacitance	2)	C _L	6.0 / 7.0 / 9.0 / 12.5	pF
Frequency tolerance	3)	ΔF/F	±20	ppm
		ΔF/F	±100	ppm
Series resistance typ./max.		R _S	50 / 65	kΩ
Motional capacitance typ.		C ₁	2.25	fF
Static capacitance typ.		C ₀	0.9	pF
Drive level max.		Р	1.0	μW
Insulation resistance min.		R _i	500	МΩ
Aging first year max.		ΔF/F	±3	ppm
Turnover temperature		T ₀	25 ±5	°C
Frequency vs. temperature		ΔF/F ₀	$-0.035 ^{\text{ppm}}/_{^{\circ}\text{C}^{2}} (\text{T - T}_{0})^{2} \pm 10\%$	ppm

- 1) Other frequencies on request.
- 2) Other load capacitances on request.
- 3) Tighter and wider frequency tolerances on request.

SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565

18924600166 QQ: 857950243 http://www.vc-tcxo.com

STANDARD FREQUENCIES

Frequencies					
32.768 kHz	60.000 kHz	76.800 kHz			
Other frequencies on request					

ENVIRONMENTAL CHARACTERISTICS

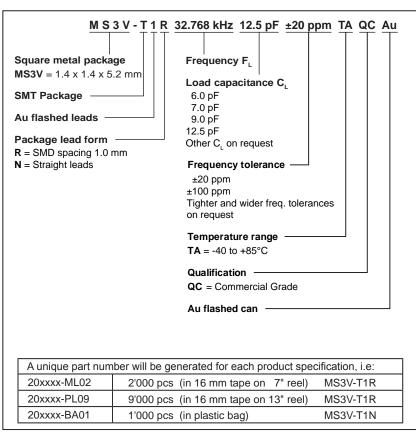
		Conditions	Max. Dev.
Storage temperature range		−55 to +85°C	
TA Operating temperature range		−40 to +85°C	
Shock resistance	ΔF/F	5000 g, 0.3 ms, ½ sine	±5 ppm
Vibration resistance	ΔF/F	20 g / 10–2000 Hz	±5 ppm

TERMINATIONS AND PROCESSING

Туре	Termination			Processing
MS3V-T1R	Leads:	Au flashed Formed leads Au flashed	1)	For surface mounting IPC/JEDEC J-STD-020C 260°C / 20 - 40 s
MS3V-T1N	Leads:	Au flashed Straight leads Au flashed	1)	For through-hole mounting IPC/JEDEC J-STD-020C 260°C / 20 - 40 s

¹⁾ Pd plated can on request.

ORDERING INFORMATION



All specifications subject to change without notice.