

MS1V-T1K

Tuning Fork Crystal 32 kHz - 100 kHz



APPLICATIONS

IoT Metering Wearables Health Care Consumer Electronics

DESCRIPTION

The MS1V-T1K 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.

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	3)	ΔF/F	±20	ppm
	-,	ΔF/F	±100	ppm
Series resistance typ./max.		Rs	45 / 60	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		$\Delta F/F_0$	-0.035 ppm/ _{°C²} (T - T ₀)² ±10%	ppm

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

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STANDARD FREQUENCIES

Frequencies					
32.768 kHz	60.000 kHz	76.800 kHz			
Other frequencies on request					

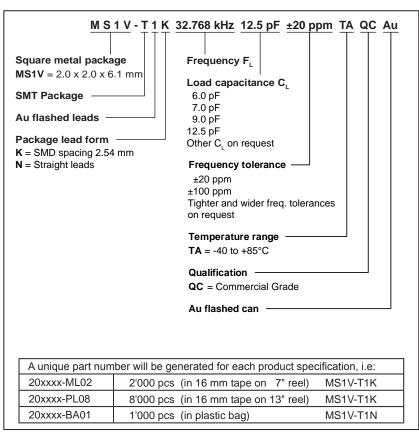
ENVIRONMENTAL CHARACTERISTICS

		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
MS1V-T1K	Can: Au flashed Leads: Formed leads Au flashed	For surface mounting IPC/JEDEC J-STD-020C 260°C / 20 - 40 s
MS1V-T1N	Can: Au flashed Leads: Straight leads Au flashed	For through-hole mounting IPC/JEDEC J-STD-020C 260°C / 20 - 40 s

ORDERING INFORMATION



All specifications subject to change without notice.