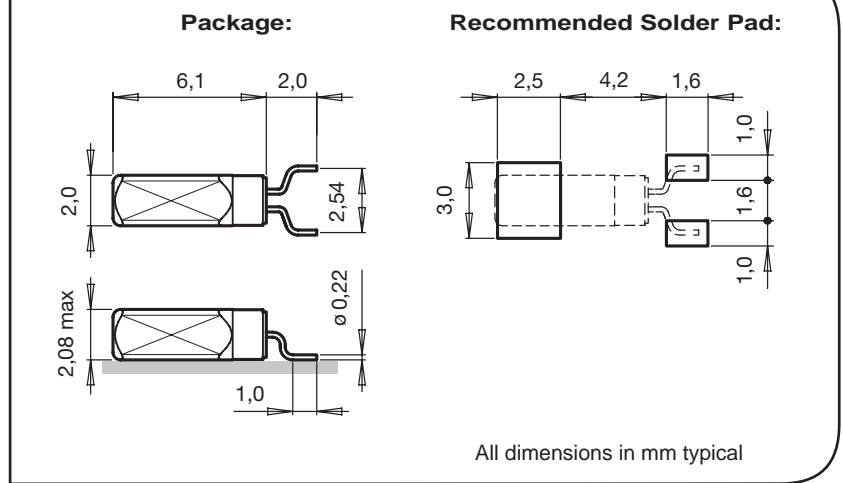


MS1V-T1K

Tuning Fork Crystal 32 kHz – 100 kHz



DIMENSIONS



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⁾ F _L	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	45 / 60	kΩ
Motional capacitance typ.	C ₁	2.25	fF
Static capacitance typ.	C ₀	0.9	pF
Drive level max.	P	1.0	μW
Insulation resistance min.	R _i	500	MΩ
Aging first year max.	ΔF/F	±3	ppm
Turnover temperature	T ₀	25 ±5	°C
Frequency vs. temperature	ΔF/F ₀	-0.035 ppm/°C ² (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.