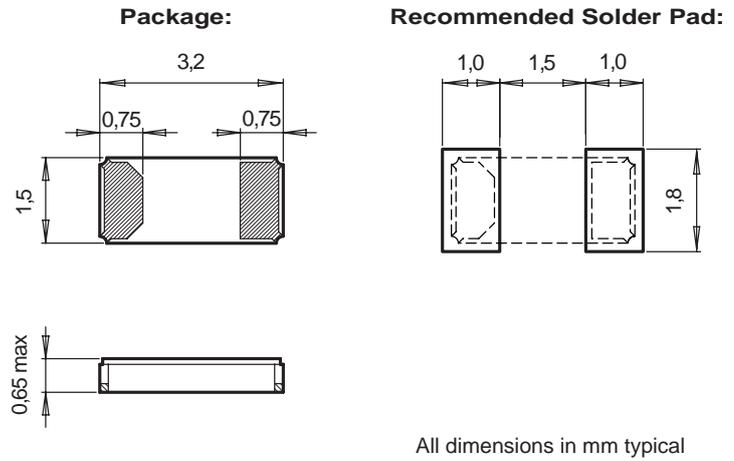


CM7V-T1A

Tuning Fork Crystal 32.768 kHz



DIMENSIONS



APPLICATIONS

IoT
 Metering
 Industrial
 Automotive
 Health Care
 Wearables, Portables

DESCRIPTION

The CM7V-T1A is a low frequency SMT Quartz Crystal Unit that incorporates a tuning fork Quartz Crystal Resonator. It operates under vacuum in a hermetically sealed ceramic package with metal lid.

FEATURES

Outstanding hermetic sealing with gold-tin preform.
 High stability and low aging guaranteed by hermetic sealing.
 Available for extended operating temperature range.
 Small size, low profile, lightweight (10.3 mg).
 High shock and vibration resistant.
 100% Pb-free, RoHS-compliant.
 Automotive qualification according to AEC-Q200 available.

ELECTRICAL CHARACTERISTICS AT 25°C

Standard Frequencies 32.768 kHz / 100.000 kHz 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	50 / 70	kΩ
Motional capacitance typ.	C ₁	3.7	fF
Static capacitance typ.	C ₀	1.2	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/°C² (T - T ₀)² ±10%	

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