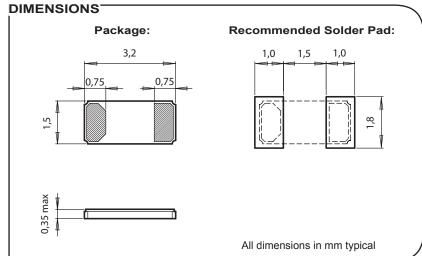


CM7V-T1A 0.3

Tuning Fork Crystal 32.768 kHz





APPLICATIONS

IoT Industrial Health Care Smart Cards Ultra Thin Devices Wearables, Portables

DESCRIPTION

The CM7V-T1A 0.3 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

Ultra low profile (maximum height 0.35 mm).
Outstanding hermetic sealing with gold-tin preform.
High stability and low aging guaranteed by hermetic sealing.
Available for extended operating temperature range.
High shock and vibration resistant.
100% Pb-free, 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
Fraguency tolorance	3)	ΔF/F	±20	ppm
Frequency tolerance	-,	ΔF/F ±100	±100	ppm
Series resistance typ./max.		Rs	45 / 60	kΩ
Motional capacitance typ.		C ₁	3.6	fF
Static capacitance typ.		C ₀	1.4	pF
Drive level max.		Р	0.5	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 frequency tolerances on request.

STANDARD FREQUENCIES

	Frequency		
32.768 kHz			
Other frequencies on request			

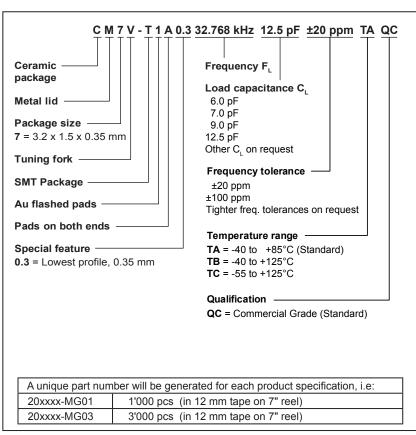
ENVIRONMENTAL CHARACTERISTICS

		Conditions	Max. Dev.
Storage temp. range		–55 to +125°C	
TA Operating temperature range		–40 to +85°C	
TB Extended oper. temp. range		–40 to +125°C	
TC Extended oper. temp. range		–55 to +125°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
CM7V-T1A 0.3	For SMT mounting Au flashed pads	IPC/JEDEC J-STD-020C 260°C / 20 - 40 s

ORDERING INFORMATION



All specifications subject to change without notice.



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