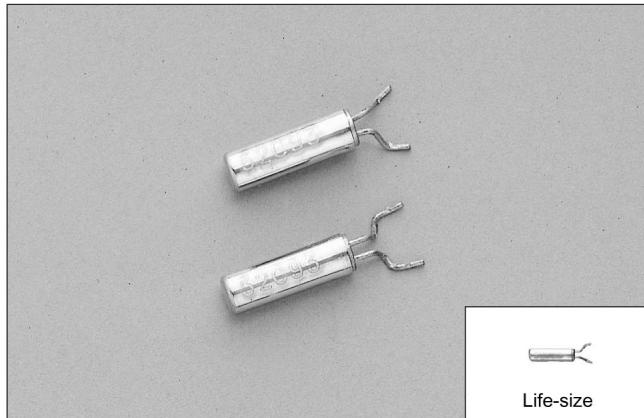


TUNING FORK CRYSTAL UNITS (SMD • Cylinder Type)

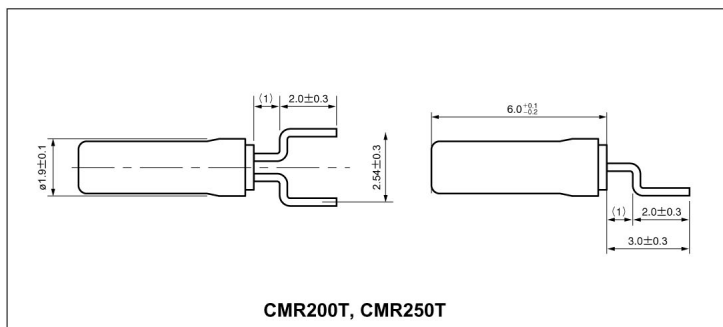
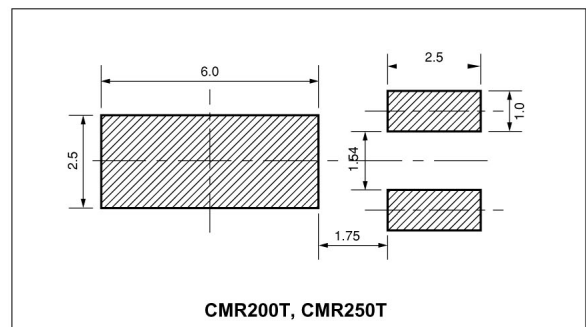
RoHS Compliant Optional

CMR200T • CMR250T

2000pcs/reel

**FEATURES**

- Lead formed SMD type with embossed tape. Automatic mounting and reflowable Type.
- Most appropriate for clock source for portable and other various equipment with low power consumption.

DIMENSION [mm]**SOLDER PAD LAYOUT [mm]****STANDARD SPECIFICATIONS**

Item	Model	CMR200T	CMR250T	Conditions
Nominal Frequency	f ₀	32.768kHz	30kHz~100kHz	Need to contact us for the available frequency in CMR250T
Frequency Tolerance	△f/f ₀	±20ppm	±30ppm	at 25℃
Load capacitance	C _L	12.5pF		Need to specify your requirement
Operating Temperature Range	T _{OPR}	-40℃~+85℃		
Storage Temperature Range	T _{STR}	-55℃~+125℃		
Turnover Temperature	T _M	25℃±5℃		See figure 2 in P4
Temperature Coefficient	β	-0.034±0.006ppm/℃ ²		
Motional (series) resistance	R ₁	50K Ω Max.		at 25℃
Level of drive	D _L	1 μW Max.		
Aging (first year)	△f/f ₀	±3ppm Max.	±5ppm Max.	25℃±3℃
Quality Factor	Q	70000 Typ.	70000 ~ 100000 Typ.	Depend on frequency
Shunt capacitance	C ₀	1.35pF Typ.	0.8pF ~ 1.7pF Typ.	Depend on frequency