

# TUNING FORK CRYSTAL UNITS (SMD • Cylinder Type)

## CMR200T

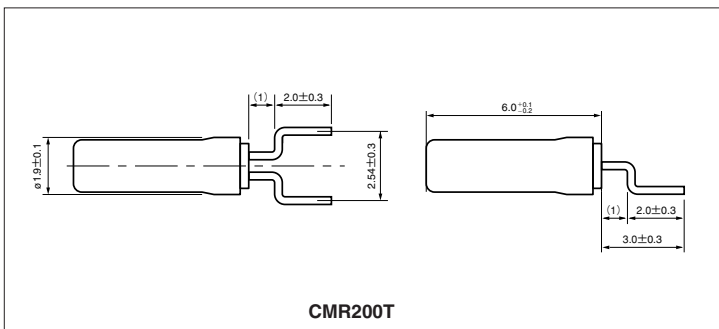
2000pcs/reel



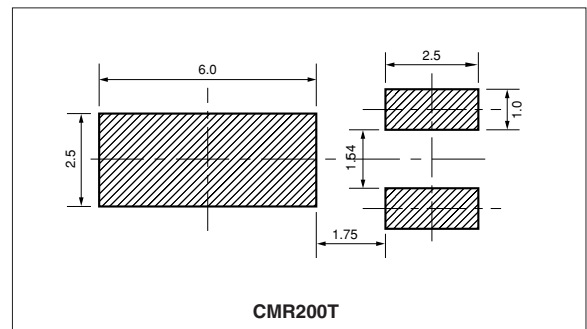
### FEATURES

- 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	Conditions
Nominal Frequency	$f_0$	32.768kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 20$ ppm	at 25°C
Load capacitance	$C_L$	12.5pF	Need to specify your requirement
Operating Temperature Range	$T_{OPR}$	-40°C ~ +85°C	
Storage Temperature Range	$T_{STR}$	-55°C ~ +125°C	
Turnover Temperature	$T_M$	25°C $\pm$ 5°C	See figure 2 in P4
Temperature Coefficient	$\beta$	-0.034 $\pm$ 0.006ppm/°C <sup>2</sup>	
Motional (series) resistance	$R_1$	50K $\Omega$ Max.	at 25°C
Level of drive	$D_L$	1 $\mu$ W Max.	
Aging (first year)	$\Delta f/f_0$	$\pm 3$ ppm Max.	25°C $\pm$ 3°C
Quality Factor	$Q$	70000 Typ.	
Shunt capacitance	$C_0$	1.35pF Typ.	