CMR250T



FEATURES:

- Because of their excellent shock resistance and low power consumption, the units are ideal for portable equipment.
- Features superior characteristics indigenous to tuning fork-type quartz crystal units.
- Ideal for low cost SMD applications.
- Provided in Tape and Reel.

APPLICATIONS:

• Permits use as a clock source for communication equipment, AV equipment, OA equipment, measuring instruments and pagers.

Item		CM250T	Conditions
Nominal frequency	fo	30kHz to165kHz	
Frequency tolerance	delta f/f0	± 30ppm	At 25°C
Frequency vs.Temperature Characteristics	delta f/fo	See drawing	-10°C to +60°C
Turnover temperature	Tm	$25^{\circ}C \pm 5^{\circ}C$	
Temperature coefficient	beta	$-0.034 \pm 0.006 ppm/^{\circ}C_{2}$	
Operating temperature range	Topr	-40°C to + 85°C	
Storage temperature range	Tstg	-55°C to +125°C	
Equivalent series resistance	R 1	35k ohm to 50k ohm	At 25°C
Load capacitance	Cl	12.5pF TYP.	Please specify
Motional capacitance	C1	0.001 to 0.004pF TYP.	
Shunt capacitance	C ₀	0.8 to1.7pF TYP.	
Capacitance ratio	gamma	425 to 800 TYP.	
Drive level	DL	1 μ W MAX.	
Insulation resistance	IR	500M ohm MIN.	$DC100V \pm 15V$
Aging (First year)	delta f/fo	± 5ppm MAX.	$25^{\circ}C \pm 3^{\circ}C$
Sealing		1 x 10-2 μ Pa·m3 /s MAX.	
Shock resistance	±5ppm MAX. Drop test of 3 times on a hard board from 75cm height or shock test of 3000G x 0.3ms x 1/2sin wave x 3 directions		

STANDARD SPECIFICATIONS

■ FREQUENCY vs TEMPERATURE CURVE

(2,000pcs/reel)

