CM130 Preliminary

(3,000pcs/reel)



FEATURES:

- Being of the ultra-miniature SMD type, and thus featuring excellent efficiency in mounting, the CM130 is ideal for application to highdensity circuit boards.
- As it incorporates a heat-resisting packaged cylinder-type crystal, it features highly stable characteristics-high enough to permit reflow soldering.
- Can be mounted automatically because of the emboss taping used.
- Its low power consumption makes it ideal for application to portable equipment as well as high density, cellular phone designs.

APPLICATIONS:

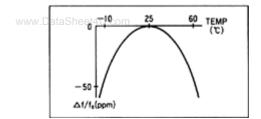
 Permits use as a clock source for communication equipment, AV equipment, OA equipment, camera, cellular phones, pagers and measuring instruments.

■ STANDARD SPECIFICATIONS

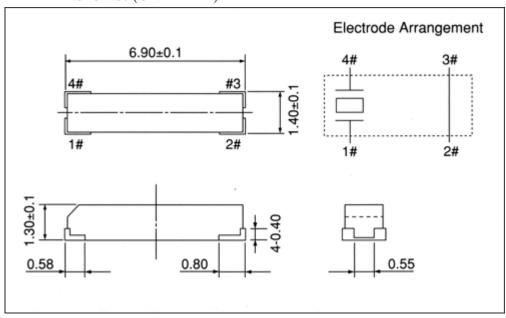
| Item | | CM130 | Conditions |
|---|--|--|-----------------------|
| Nominal frequency | fo | 32.768kHz | |
| Frequency tolerance | delta f/f0 | ± 20ppm | Reference temperature |
| Frequency vs.Temperature Characteristics | delta f/f0 | See drawing | -10°C to +60°C |
| Turnover temperature | Tm | 25°C ± 5°C | |
| Freq. temp. coefficient | beta | -0.034 ± 0.006 ppm/°C ₂ | |
| Operating temperature range | Topr | -40°C to +85°C | |
| Storage temperature range | Tstg | -55°C to +125°C | |
| Equivalent series resistance | Rı | 65k ohm MAX. | Reference temperature |
| Load capacitance | CL | 12.5pF TYP. | Please specify |
| Motional capacitance | C ₁ | 0.0023pF TYP. | |
| Shunt capacitance | Co | 1.2pF TYP. | |
| Capacitance ratio | gamma | 520 TYP. | |
| Drive level | DL | 1 μ W MAX. | |
| Insulation resistance | IR | 500M ohm MIN. | $DC100V \pm 15V$ |
| Aging (First year) | delta f/fo | ± 3ppm MAX. | 25°C ± 3°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 | | |

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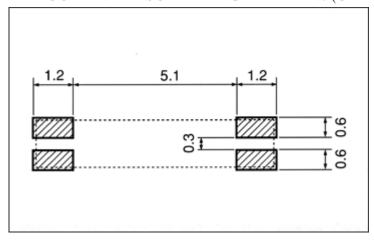
■ FREQUENCY vs TEMPERATURE CURVE



■ DIMENSIONS: (UNIT=mm)



■ RECOMENDED SOLDERING PATTERN: (UNIT=mm)



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