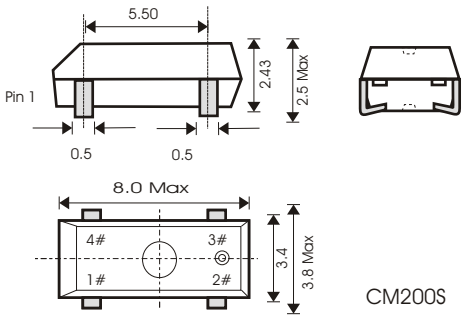
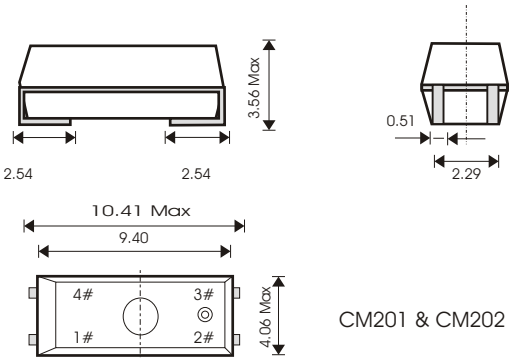
Specify AEL

CITIZEN Plastic Moulded Watch Crystals
CM200 & CM201/CM202





CM200S



CM201 & CM202

FEATURES

- High Density Mounting
- Suitable for Reflow Soldering
- Excellent Reliability
- Drop-In Replacement for Seiko Epson

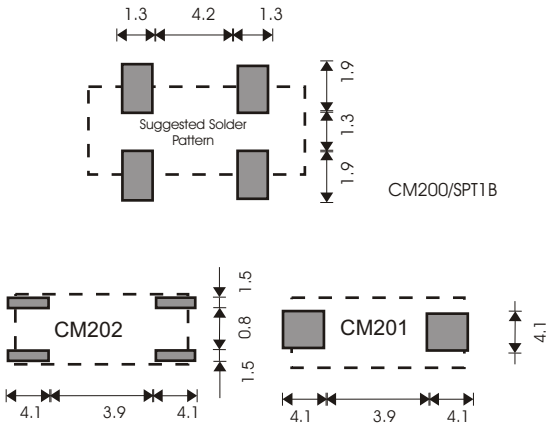
APPLICATIONS

- Microprocessor Systems
- Datacommunications
- Consumer Electronics
- Automotive Electronics

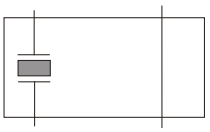
STANDARD SPECIFICATION

Frequency Range:	32.768 kHz
Adjustment Tolerance at 25°C:	±20PPM Max.
Frequency Stability:	-0.046PPM/°C². Max
Operating Temperature Range:	-10°C to +60°C
Load Capacity:	12.5pF
E.S.R:	50k Max
Drive level:	1.0 MicroWatt
Ageing:	±5PPM 1st Year Max.

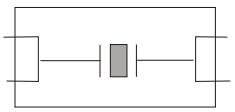
Suggested Solder Pad Layout



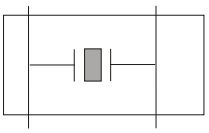
AVAILABLE OPTIONS



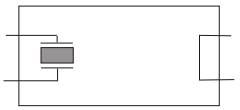
CM200S Type



CM201 Type (91SMX)



SPT1B Type



CM202 Type (90SMX)

Solder Conditions

Hand Solder Solder Dip	280°C ~ 350°C 3 Secs 240°C 5 Secs Max
Reflow Soldering PreHeat	140°C (+/-10°C) 100 Secs Max
Reflow	Over 200°C 25 Secs Max 230°C +/-5°C 5 Secs Max

Surface Mounted Quartz Crystal Resonators