

**CM200S smd watch crystal
32.768kHz**

- low profile plastic package
- bulk packed or 16mm tape and reel
- flexure mode
- RoHS compliant

Electrical specification

Case style	CM200S: height 2.5mm
Frequency	32.768kHz
Adjustment tolerance	from ± 20 ppm at $+25^{\circ}\text{C}$ as standard, selections available
Temperature tolerance	0.042ppm/ $^{\circ}\text{C}^2$
Operating temperature	$(-10 +60)^{\circ}\text{C} \sim (-40 +85)^{\circ}\text{C}$
Storage temperature	$(-55 +125)^{\circ}\text{C}$
Load	12.5pF standard, 9pF to order
Shunt capacitance C_0	1.35pF typical
Drive level	1 μW max.
Q factor	70,000 typical
Ageing	± 3 ppm first year max.
Insulation resistance	500Meg. ohm min. at 100Vd.c.
PART NUMBER	X 32.768K CM200S

CM200S dimensions(mm)
