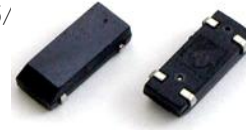


Main Feature

- RoHS/RoHS II compliant, Pb in High Temp. Solder (exempt per RoHS 2002/95/
- Cross Ref. No. CM200C, CM250C, ABS25 and more

Application

- Communication Equipment
- Measurement Instrument etc.
- Computer Clock and Industrial Application



8.0*3.8*2.5mm

Standard Specification

Frequency Range: 32.768KHz ~200.000KHz
 Frequency Tolerance (at 25°C): ±10~ ±50ppm
 Load Capacitance: 12.5pF (Typ.) or Specify
 Frequency Coefficient: -0.038 ppm/°C Max.
 Operating Temperature: -40°C~ +85°C or Specify
 Equivalent Series Resistant: see Table 1
 Storage Temperature: -40 °C~ +85°C (typ.)
 Aging (at 25°C): ±5ppm Max.
 Shunt Capacitance (C0): 2.0pF Max.
 Drive Level: 1.0µ W Max.
 Package: 3000pcs/Reel

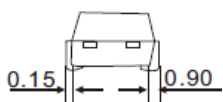
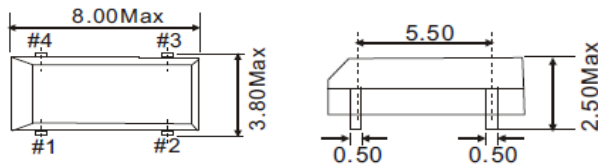
Standard ESR Table 1

Frequency Range in KH	ESR Value in KOhm Max.
30.00~39.9990	50
40.000~59.9990	40
60.000~69.999	35
70.000~99.9990	35
100.000~200.000	30

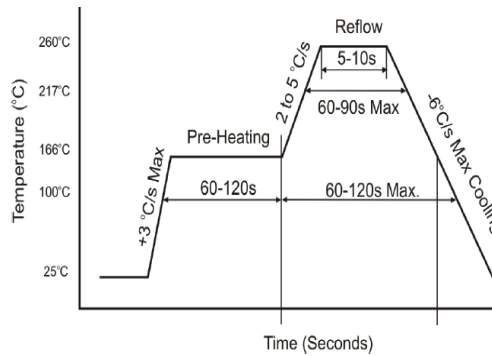
Regular Frequency List in KHz

32.7680 | 75.0000 | 153.6000

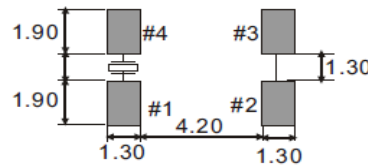
Dimension (Unit: mm)



Reflow Profile Condition(260 ° C Max.)



Recommended Solder Pad Layout



Pin 1 and Pin 4: Xtal, Pin 2 and Pin 3: Ground

TGS part No. Guide

TGS	CCMC	32K768A	50-	12.5-	40-	50 T LH XX
	1	2	3	4	5	6 7 8 9 10

- 1) CCMC: TGS Part Family No.
- 2) 32K768: Frequency Range in KHz or specify
- 3) Oscillator Mode- A: AT- Cut Fund
- 4) 50: Frequency Tolerance in +/-50ppm or specify
- 5) 12.5: Load Capacitor in pF or specify
- 6) 40: Operating Temp. in -40° C~ + 85° C or specify
- 7) 50: ESR Max. in 50 Kohm or see table 1
- 8) T: Tape /Reel
- 9) LH: RoHS/RoHS II compliant, Pb in High Temp. Solder (exempt per RoHS 2002/95/ECAnnex (7))
- 10) XX: 2 letters as Internal Control Code