

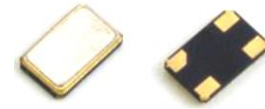
Main Feature

Current part - Recommended for new designs

- RoHS compliant
- Seam Sealed Ceramic SMD type
- Cross Ref. No. ABM3X and more

Application

- Communication, Test equipment
- Computers, Modems, Microprocessor



5.0*3.2*0.9mm

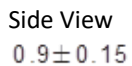
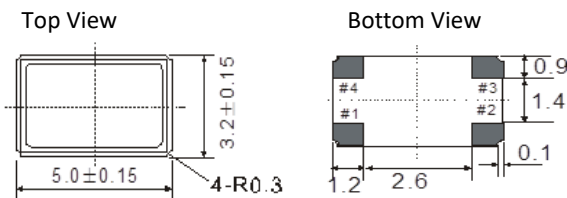
Standard Specification

Frequency Range: 12.000MHz ~ 40.000Hz
 Frequency Tolerance (at 25°C): ±10~ ±50ppm
 Load Capacitance: 18pF (Typ.) or Specify
 Frequency Stability: ±10 ~ ±100ppm
 Operating Temperature: -20°C~ +70°C and -40°C~ +85°C
 Equivalent Series Resistant: see Table 1
 Storage Temperature: -55 °C~ +125°C (typ.)
 Aging (at 25°C): ±5ppm Max.
 Shunt Capacitance (C0): 7.0pF Max.
 Drive Level: 100µW Typ.
 Package: 1000pcs/Reel

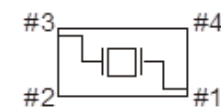
Standard ESR Table 1

Frequency Range in MHz	ESR Value in Ohm Max.
12.000~14.9999 (Fund.)	80
15.0000~29.999(Fund.)	50
30.000~39.9999(Fund.)	40

Dimension (Unit: mm)



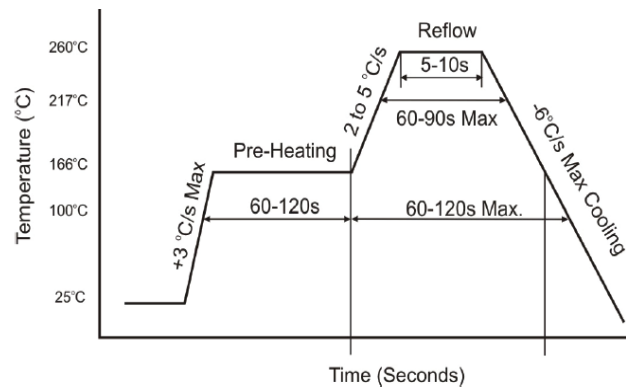
Electrocode Arrangement



Connection

#1: Groubd #2 Input #3 Ground #4 Output

Reflow Profile Condition(260 °C Max.)



TGS part No. Guide

TGS	CM53	12M0A	50-	18-	50-	40-	80	T	LF	XX	
	1	2	3	4	5	6	7	8	9	10	11

- 1) CM53: TGS Part Family No.
- 3) Oscillator Mode- A: AT- Cut Fund. ; B: Bt-Cut; C: 3rd OT
- 5) 18: Load Capacitor in pF or specify
- 7) 40: Operating Temp. in -40°C~ + 85°C or specify
- 9) T: Tape /Reel
- 11) XX: 2 letters as Internal Control Code

- 2) 12M0: Frequency Range in MHz or specify
- 4) 50: Frequency Tolerance in +/-50ppm or specify
- 6) 50: Frequecny Stability in +/-50 ppm or spcify
- 8) 80: ESR Max. in 80 ohm or see table 1
- 10) LF: RoHS compliant