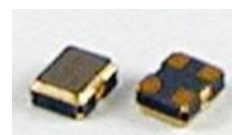


**Main Feature**

**Current part - Recommended for new designs**

- RoHS compliant
- Seam Sealed Ceramic SMD type
- Cross Ref. No. ABM11 and more
- Smallest package in the industry



2.1\*1.6\*0.45mm

**Application**

- Communication, Test equipment
- Computers, Modems, Microprocessors

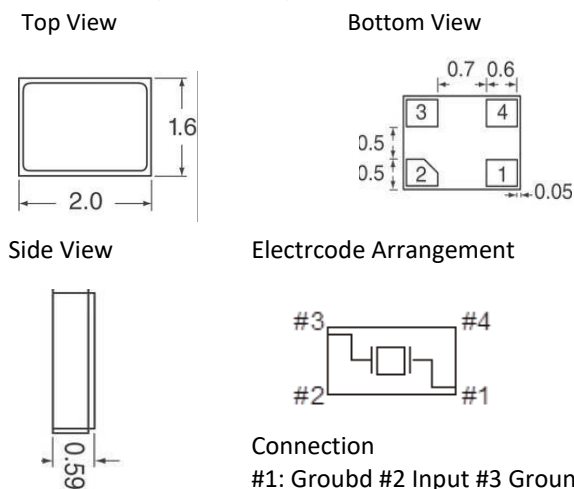
**Standard Specification**

Frequency Range: 20.000MHz ~ 80.000MHz  
 Frequency Tolerance (at 25 °C): ±15~ ±50ppm  
 Load Capacitance: 10pF (Typ.) or Specify  
 Frequency Stability: ±10 ~ ±50ppm  
 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: 3000pcs/Reel

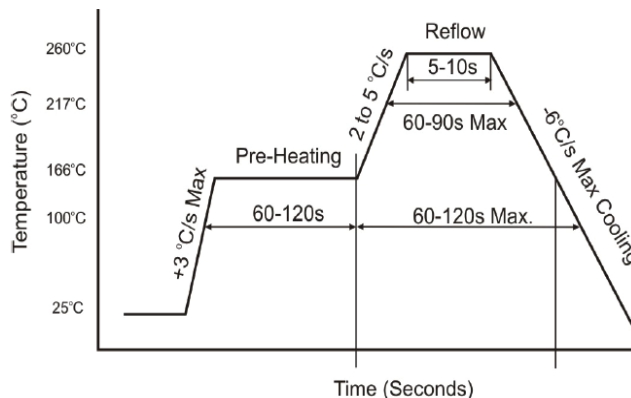
**Standard ESR Table 1**

Frequency Range in MHz	ESR Value in Ohm Max.
20.000~24.999 (Fund.)	200
25.000~39.999(Fund.)	100
40.000~80.000(Fund.)	60

**Dimension ( Unit: mm)**



**Reflow Profile Condition(260 °C Max.)**



**TGS part No. Guide**

TGS	CM21	30M0A	50-	18-	50-	40-	80	T	LF	XX
	1	2 3	4	5	6	7	8	9	10	11

- 1) CM21: TGS Part Family No.
- 2) 30M0: Frequency Range in MHz or specify
- 3) Oscillator Mode- A: AT- Cut Fund. ; B: Bt-Cut; C: 3rd OT
- 4) 50: Frequency Tolerance in +/-50ppm or specify
- 5) 18: Load Capacitor in pF or specify
- 6) 50: Frequecny Stability in +/-50 ppm or spcify
- 7) 40: Operating Temp. in -40°C ~ + 85°C or specify
- 8) 80: ESR Max. in 80 ohm or see table 1
- 9) T: Tape /Reel
- 10) LF: RoHS compliant
- 11) XX: 2 letters as Internal Control Code