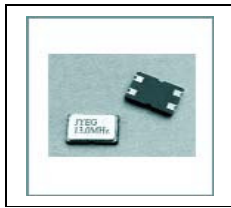


SMD0503



GENERAL SPECIFICATIONS

Environmental Specification:
Dimension

1. GENERAL SPECIFICATIONS

- 1.1 Holder Style : SMD0503
- 1.2 Frequency : 14.7456 MHz
- 1.3 Mode Of Oscillation : Fundamental
- 1.4 Frequency tolerance at 25°C : +/- 20 PPM
- 1.5 Frequency Stability at (-20°C ~ +70°C) : +/-30 PPM
- 1.6 Load Capacitance (CL) : 12 pf
- 1.7 Static capacitance (CO) : 7PF max
- 1.8 Ts :
- 1.9 Resonance Resistance (RR) : 12.000~40.000MHz : 50 Ohm
40.000 ~ 90.000 : 60 ohm
- 1.10 Drive Level : 10 uW max
- 1.11 Insulation Resistance : 500M ohm MIN
- 1.12 Aging : +/-5ppm/year
- 1.13 Operating temperature :- 20 °C ~ +70 °C
- 1.14 Measurement Condition : the reference temperature shall be at 25°C ±2°C

2. ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

The crystal shall meet electrical characteristics and suffer no physical damage after being subject to the following conditions.

2.1 Storage Temperature :-30□ - 85□

2.2 Shock: drop freely from 75cm height 3 times on 30mm thick hard wooden board.

2.3 Vibration: frequency 10—55Hz

Amplitude 1.5mm

2 hours in each of 3 mutually perpendicular direction.

2.4 Solderability: temperature 235□±5□

Immersion duration: 2±0.5 seconds

2.5 Resistance to soldering heat: temperature 260□±5□

Immersion duration: 10±1 seconds.

2.6 Humidity: humidity 95%±3, temperature 40□,96 hours.

2.7 Seal: pressure :400Kpa, immersion duration : 30 minutes,

Leakage rate<5 x10⁻⁹ Pa m³/s

2.8 Terminal strength: pull:1.5kg,30 seconds

Bend:0.75kg,90□, 2 times.

2.9 Temperature cycle: lowest temperature -40□,30minutes/cycle

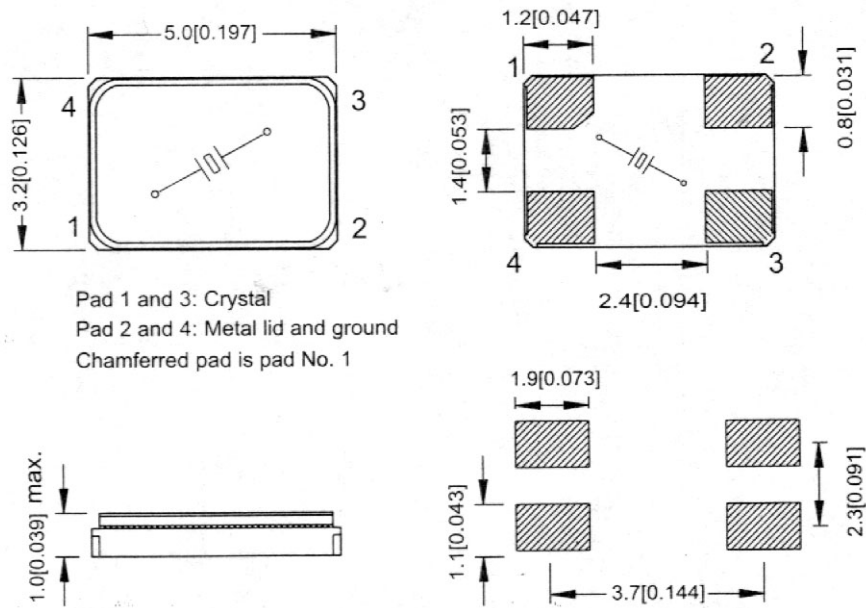
Highest temperature +85□,30 minutes/cycle

10 cycles

2.10 Aging: temperature +85□

Duration 30 days.

3.Dimension

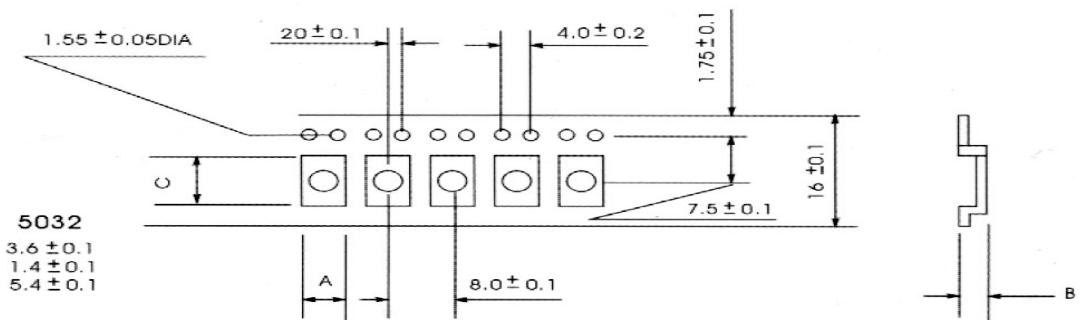


Pad 1 and 3: Crystal
 Pad 2 and 4: Metal lid and ground
 Chamfered pad is pad No. 1

4. Marking: laser marking **xx.xxx** → Frequency
SPK ** → Lot no.

5. Package and Label

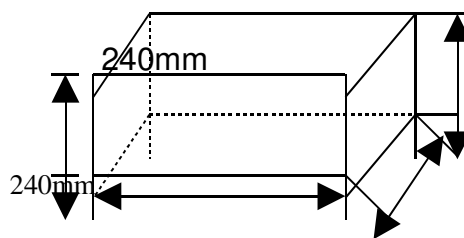
5.1 Package dimension: 1000pcs/REEL



10000pcs/carton

240mm

340mm



Gross weight: 12 kgs/carton