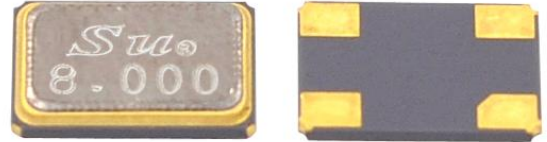


TSQ-5032SMD

FEATURES

- Tight tolerance & stability
- Rugged AT-cut crystal construction
- Miniature 5.0×3.2mm ceramic package
- High precision characteristic covering up to high frequency range
- Automatic mounting
- Embossed tapping specification
- Suitable for Reflow soldering
- Pb-free and RoHS/Green compliant

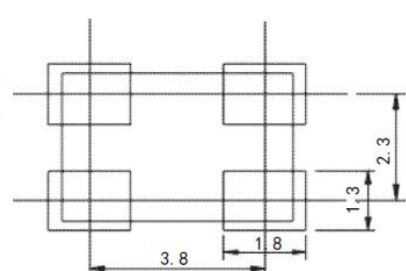
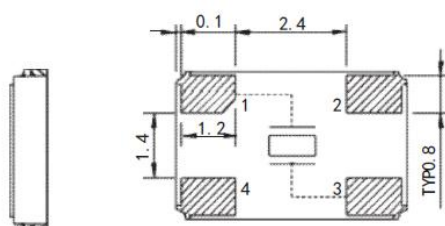
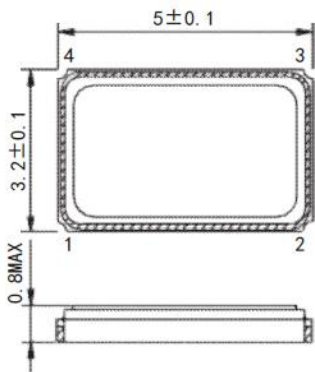


SPECIFICATIONS	
Holder Type	5×3.2mm Ceramic Surface Mount
Frequency Range	8.000 MHz to 150.0000 MHz
Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
Drive Level	10μW (300μW max.)
Load Capacitance	Suggested by customer
Frequency Tolerance	±10ppm to ± 30ppm
Frequency Drift	±10ppm to ± 30ppm※(See Notes)
Shunt Capacitance	5.0pF max.
Insulation Resistance	500 Megaohms Minimum at D.C 100V
Aging First Year	±3ppm/ year max.

※Notes: ±10, ±20, ±30ppm (-20°C to +70°C)
 ±20, ±30, ±50ppm (-40°C to +85°C) or depends on customer

EQUIVALENT SERIES RESISTANCE(ESR) AND MODE OF OPERATION		
Frequency Range	ESR(Ω)	Mode
8.000MHz ≤ f < 10.000 MHz	100Max	Fundamental
10.000MHz ≤ f < 12.000 MHz	80Max	Fundamental
12.000MHz ≤ f < 16.000 MHz	60Max	Fundamental
16.000MHz ≤ f < 20.000 MHz	50Max	Fundamental
20.000MHz ≤ f < 24.000 MHz	40Max	Fundamental
24.000MHz ≤ f < 50.000 MHz	30Max	Fundamental
40.000MHz ≤ f < 150.000 MHz	80Max	Third Overtone

Mechanical Dimensions



Note) #2, #4 is connected with a cover
 (Please connect with a GND or a power supply)

Unit: mm

Note: Specification are subject to change without notice. For more detail and update, please visit our website.