

QUARTZ CRYSTAL

SMD Seam Sealed Crystal - C7050 Series (7.0x5.0x1.1mm)

Features

- * High precision characteristic covering up to high frequency range
- * Designed for automatic mounting and reflow soldering
- * The best choice of Bluetooth wireless communication sets
- * Excellent heat resistance and environmental characteristics
- * RoHS Compliant / Pb Free



Specifications

| | |
|-----------------------------|---|
| Holder Type | C7050Series |
| Frequency | 6 Mhz ~ 110 Mhz |
| Operating Temperature Range | -20°C to +70°C typical or custom-designed |
| Storage Temperature Range | - 55 to +125°C typical |
| Load Capacitance | 8pF ~ 30pF of Series |
| Frequency Tolerance at 25°C | ±10ppm ~ ±30ppm, or specify |
| Frequency Stability | ±10 ~ 30ppm, or specify |
| Shunt Capacitance | 5.0pF Max. |
| Insulation Resistance | 500MΩ Min. at DC 100V |
| Drive Level | 1 ~ 100μW (10μW typical) |
| Aging (at 25°C) | ±3ppm/ year Max. |

Equivalent Series Resistance (ESR) and Mode of Operation

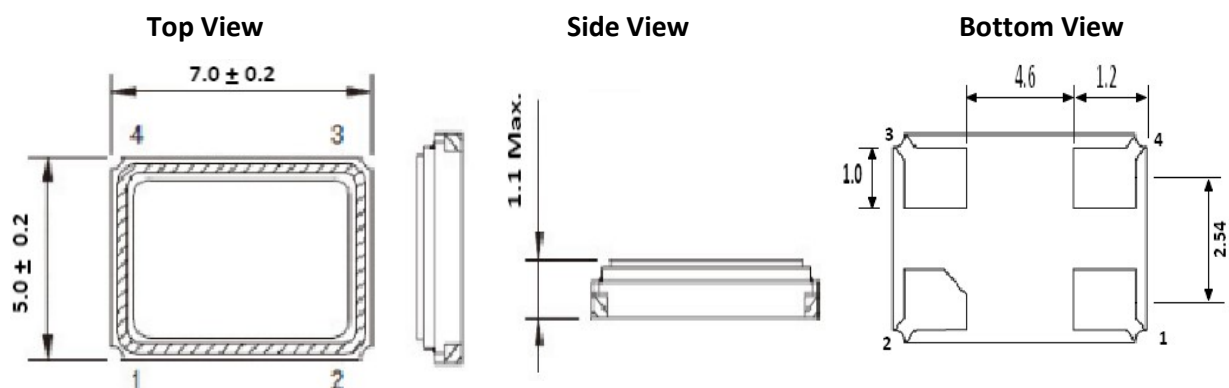
| Frequency Range | ESR(Ω) | Mode |
|-----------------|----------|----------------|
| 6 ~ 8 Mhz | 100 Max. | AT/Fundamental |
| 8 ~ 48 Mhz | 60 Max. | AT/Fundamental |
| 32 ~ 110 Mhz | 80 Max. | AT/3RD |

How to order

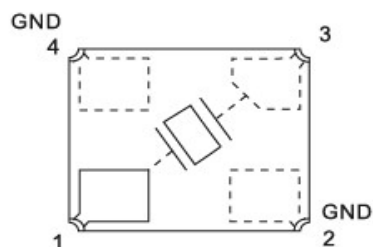
| C7050 | 20M | 2 | 20 | D | R |
|------------------------|--|--|--|--|---------------|
| Series | Frequency | Operating Temp. | Load capacitance | Frequency Tol. | Package |
| size: 7.0x5.0x1.1mm | 20= 20Mhz 25= 25Mhz 30= 30Mhz 40= 40Mhz | 1= -10°C ~+60°C 2= -20°C ~+70°C 3= -40°C ~+85°C 4= -40°C ~+105°C 5= -30°C ~+85°C | 10 = 10pF 15 = 15pF 20 = 20pF 30 = 30pF Or specify | B=±10ppm C=±15ppm D=±20ppm E=±30ppm F=±50ppm | R = Tape Reel |

MSC

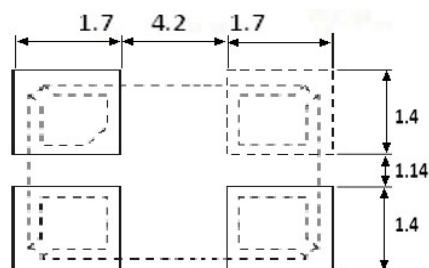
Dimensions (mm)



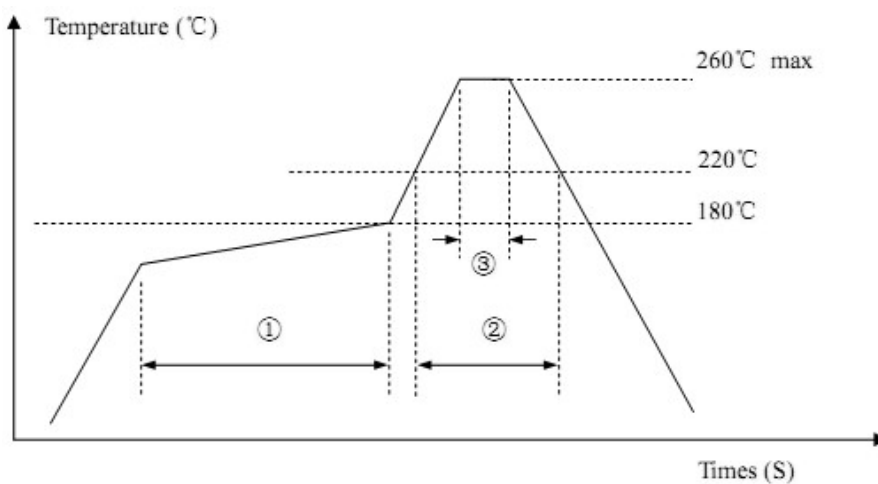
Top View Crystal Connection



Top View Suggested Layout



Reflow Condition



| | | | | |
|----------------|---|--------------|-----------|-------------|
| Pb free reflow | ① | Preheat | 160~180°C | 120sec. max |
| | ② | Primary heat | 220°C | 60sec. max |
| | ③ | Peak | 260°C | 10sec. max. |

Dimension of Reel

