

FEATURE

- Wide Frequency range
- Small size
- Tape & Reel
- Designed for Microprocessor Systems and Consumer Electronics

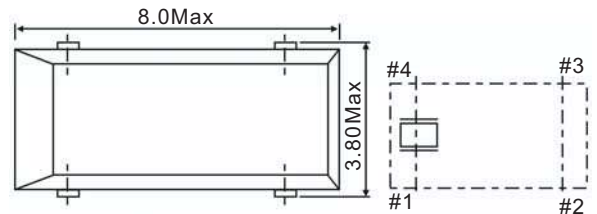


ELECTRICAL SPECIFICATIONS

| | |
|--|--------------------------------|
| Frequency | 25.000KHz ~307.200KHz |
| Frequency Tolerance(at 25°C) | ±10ppm to ±100ppm |
| Temperature Coefficient | -0.035±0.01ppm/°C |
| Load Capacitance(C _L) | 12.5pF Typical |
| Equivalent Series Resistance | See Below Table |
| Turnover Temperature | 25±5°C |
| Operating Temperature Range | -10°C ~ +60°C to -40°C ~ +85°C |
| Storage Temperature Range | -40°C ~ +85°C |
| Shunt Capacitance(C ₀) | 1.35pF Typical |
| Dynamic Capacitance(C ₁) | 0.003pF Typical |
| Drive Level(Typical) | 1 μW Max |
| Insulation Resistance | 500MΩ Min at DC100V±15V |
| Aging @25°C 1 st year (Max) | ±5ppm/year |

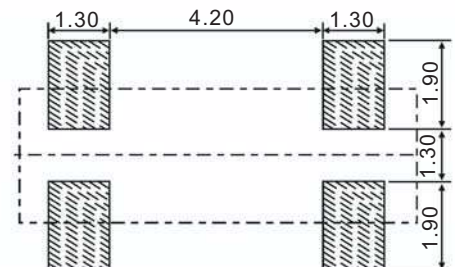
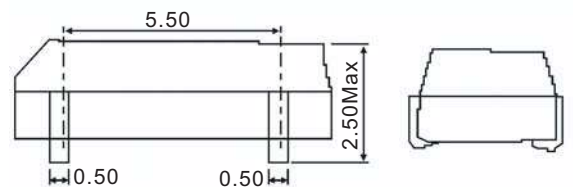
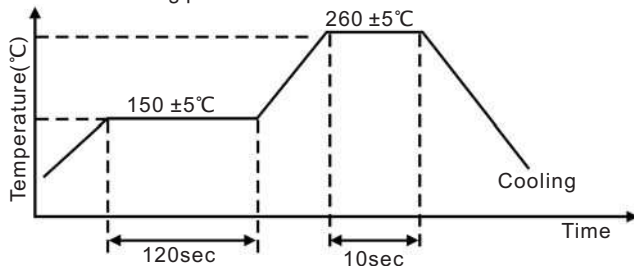
EQUIVALENT SERIES RESISTANCE(ESR)

| Frequency(KHz) | E.S.R(Ω) | Frequency(KHz) | E.S.R(Ω) |
|----------------|----------|-----------------|----------|
| 25.000~39.999 | 65K Max | 70.000~99.999 | 50K Max |
| 40.000~59.999 | 60K Max | 100.000~307.200 | 45K Max |
| 60.000~69.999 | 55K Max | | |



DIMENSIONS AND REFLOW SOLDERING PROFILE

Total time: 200 sec Max
Solder melting point: 185°C



Frequency Stability Over Operating Temperature Range

| Temperature Range | Frequency Stability (ppm) | | |
|-------------------|---------------------------|---------|---------|
| | ±50ppm | ±100ppm | ±150ppm |
| -10~+60°C | √ | √ | √ |
| -20~+70°C | √ | √ | √ |
| -40~+85°C | | | √ |

PART NUMBER

| | | | | | | | | | |
|----------------------|------------------------|---|--------------------------------|---|----------------------------------|---|----------------------------------|---|--|
| ZM206- | 32.768 | - | 12.5 | - | 30 | - | 50 | - | A |
| (Package SMD8*3.8mm) | Frequency 32.768KHZ | | Load Capacitance 12.5 pF | | Frequency Tolerance ±30ppm | | Frequency Stability ±50ppm | | Operating Temperature Range A:-20~70°C B:-10~60°C E:-40~85°C |