

FEATURE

- Wide Frequency range
- High shock tolerance
- Small size
- Reliable frequency stability

APPLICATIONS

- Microprocessor Systems
- Consumer Electronics
- Instrumentation
- Automotive electronics



ELECTRICAL SPECIFICATIONS

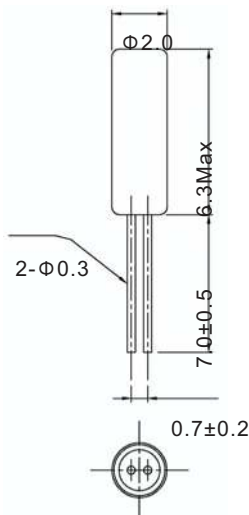
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|--|--|
| Frequency Range | 6.000MHz to 30.000MHz |
| Frequency Tolerance(at 25°C) | ±10ppm to ±100ppm |
| Frequency Stability | ±10ppm to ±100ppm |
| Load Capacitance(C _L) | 20pF, or specify |
| Equivalent Series Resistance | See Below Table |
| Operating Temperature Range | -10°C to +60°C, -20°C to +70°C, -40°C to +85°C |
| Storage Temperature Range | -40°C to +85°C |
| Aging @25°C 1 st year (Max) | ±5ppm/year |
| Shunt Capacitance(C ₀) | 5.0pF Max |
| Drive Level(Typical) | 100 μW Max |
| Insulation Resistance | 500MΩ Min at DC100V |

EQUIVALENT SERIES RESISTANCE(ESR) AND OSCILLATION MODE

| Frequency(MHz) | E.S.R.(Ω) | Mode |
|----------------|-----------|-------------|
| 6.000~9.999 | 160Max | Fundamental |
| 10.000~19.999 | 100Max | Fundamental |
| 20.000~30.000 | 80Max | Fundamental |

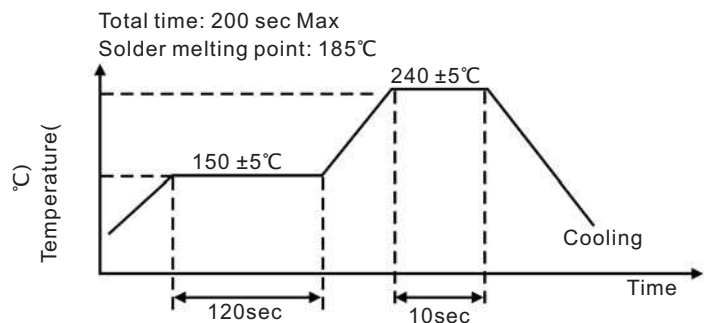
| Frequency(MHz) | E.S.R.(Ω) |
|----------------|-----------|
| 6.000 | 160MAX |
| 7.000 | 160MAX |
| 7.3728 | 160MAX |
| 8.000 | 130MAX |
| 9.000 | 120MAX |

DIMENSIONS AND REFLOW SOLDERING PROFILE



Frequency Stability Over Operating Temperature Range

| Temperature Range | Frequency Stability (ppm) | | | | |
|-------------------|---------------------------|--------|--------|---------|---------|
| | ±20ppm | ±30ppm | ±50ppm | ±100ppm | ±150ppm |
| 0~+50°C | √ | √ | √ | √ | √ |
| -10~+60°C | √ | √ | √ | √ | √ |
| -20~+70°C | √ | √ | √ | √ | √ |
| -30~+80°C | | | | √ | √ |
| -40~+85°C | | | | | √ |



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| | | | | | | | | |
|---|---|------------------------------------|---|---|---|---|---|--|
| 16.000 | - | 20 | - | 30 | - | 30 | - | A |
| Frequency e.g: 16.000 :16.000MHz | | Load Capacitance e.g:20:20pF | | Frequency Tolerance e.g: 30:±30ppm | | Frequency Stability e.g: 30:±30ppm | | Operating Temperature Range A:-20~70°C B:-10~60°C E:-40~85°C |