

FEATURE

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

APPLICATIONS

- Microprocessor Systems
- Consumer Electronics
- Instrumentation
- Automotive electronics



ELECTRICAL SPECIFICATIONS

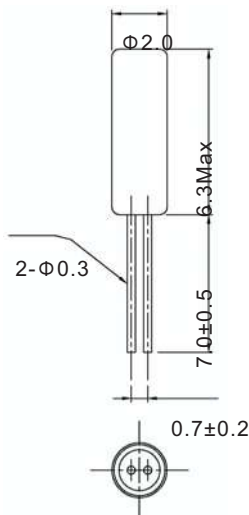
Frequency Range	6.000MHz to 30.000MHz
Frequency Tolerance(at 25°C)	±10ppm to ±100ppm
Frequency Stability	±10ppm to ±100ppm
Load Capacitance(C _L)	20pF, or specify
Equivalent Series Resistance	See Below Table
Operating Temperature Range	-10°C to +60°C, -20°C to +70°C, -40°C to +85°C
Storage Temperature 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

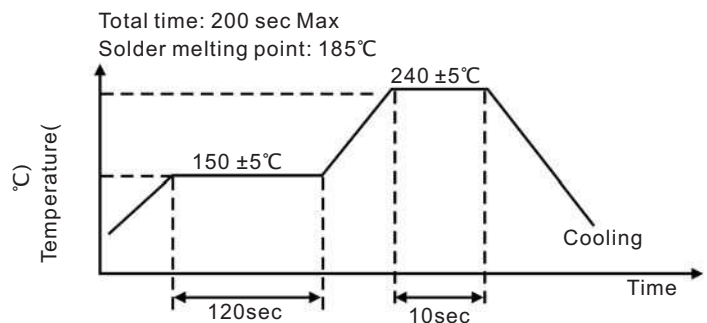
Frequency(MHz)	E.S.R.(Ω)
6.000	160MAX
7.000	160MAX
7.3728	160MAX
8.000	130MAX
9.000	120MAX

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