

Cylinder Crystal (3X9) TYPE



Application of Crystal

- ▶ Radio communication
- ▶ MP3
- ▶ Office automation equipment
- ▶ Notebook
- ▶ Telephone



Features

- ▶ High stability assured with tight vacuum sealing
- ▶ High vibration and shock resistance
- ▶ Excellent environmental capability
- ▶ Low Cost
- ▶ available
- ▶ Rohs compliant / Pb free



Electrical Specification

NO	Model	Cylinder Crystal (3X9)
1	Frequency Range	3.579545 ~ 64.000 MHz
2	Frequency Tolerance at 25°C±2°C	±10 ~ ±50 ppm (TYP.)
3	Frequency Stability Over Operating Range	±10 ~ ±50 ppm (TYP.)
4	Operating Temp Range	-10°C~ +60°C, -20°C~ +70°C or customer requirement
5	Load Capacitance	10 pF ~ 32 pF, series or special
6	Shunt Capacitance	7 pF Max.
7	Drive Level	0.1uW ~ 1000uW(TYP.: 100uW)
8	Insulation Resistance	500MΩ min / DC 100V±15V
9	Oscillation Mode	Fundamental, 3rd & 5th overtone
10	Measure Instrument	S&A 250B
11	Aging Rate	±3ppm/year

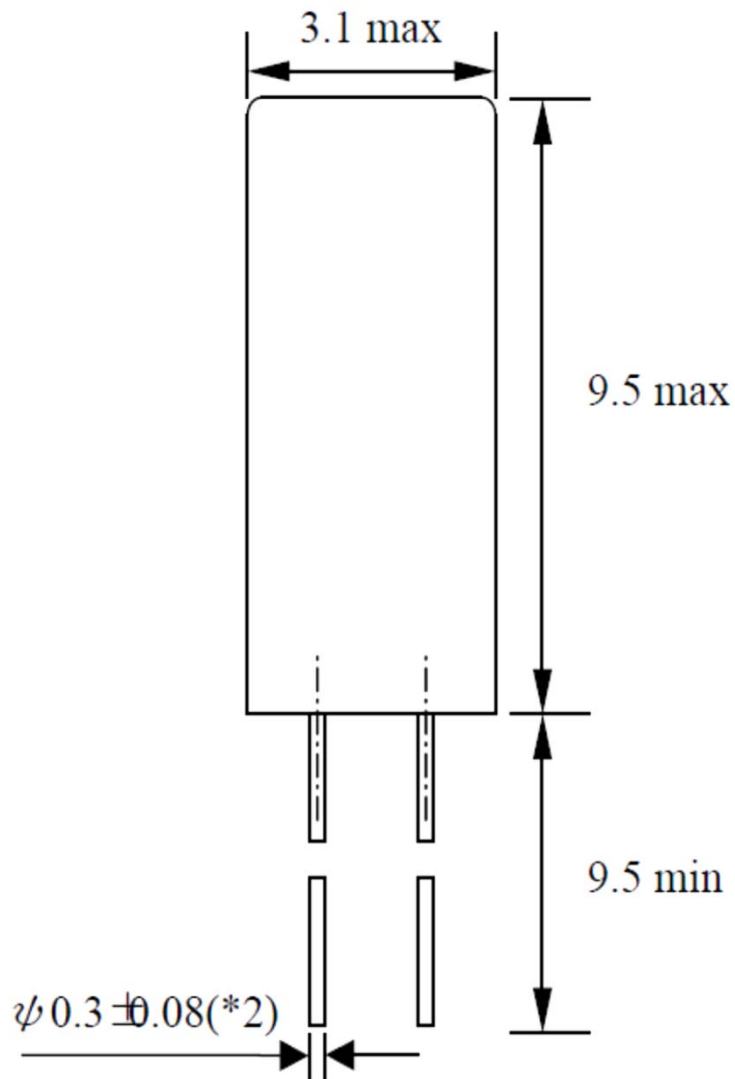
Equivalent Series Resistance(ESR) VS Frequency

NO	Frequency (MHz)	Oscillation Mode	Cylinder Crystal (3X9)
1	3.57~ 5.5	Fundamental	150Ω MAX
2	5.6 ~ 6.0	Fundamental	100Ω MAX
3	6.1 ~ 10.0	Fundamental	80Ω MAX
4	10.1 ~ 12.0	Fundamental	60Ω MAX
5	12.1 ~ 16.0	Fundamental	50Ω MAX
6	16.1 ~ 30.0	Fundamental	40Ω MAX
7	26.0 ~ 36.0	3rd overtone	100Ω MAX
8	36.01 ~ 64.0	3rd overtone	80Ω MAX

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Dimensions (mm):



Recommended Land Pattern:

