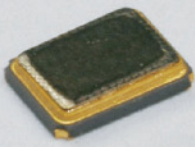


CRYSTAL UNIT

SX-32, SX-22

- Four pad ceramic surface mount package
- AT cut
- Tight tolerance/stability
- Using highly reliable seam weld method
- Taping and reel available, automatic mountable
- Pb-free and RoHS compliance

SX-32



SX-22



CERAMIC SMD TYPE

ELECTRICAL SPECIFICATIONS

Frequency Range	12.000 to 50.000MHz
Operating Temperature Range	-10 to +60°C(STD), -20 to +70°C, -40 to 85°C, or specify
Storage Temperature Range	-40 to +85°C
Frequency Tolerance (at 25°C)	± 15, ± 30, ± 50ppm(STD), or specify
Frequency stability Over Operating Temperature Range	See Table1 in page 4
Load Capacitance(CL)	12pF(STD), Custom CL≥8pF or Series Resonant
Drive Level	10μW(100μW max.)
Shunt Capacitance(Co)	5.0pF max.
Aging (at 25°C)	± 3.0ppm/year max.
Insulation Resistance	500MΩ min. at 100V _{DC}

EQUIVALENT SERIES RESISTANCE(ESR)

Frequency Range(MHz)	ESR(Ω MAX.)	Mode of Oscillation	Package
12.000 ~ 13.999	150	Fundmental	SX-32
14.000 ~ 15.999	100	Fundmental	SX-32
16.000 ~ 19.999	80 / 120	Fundmental	SX-32 / SX-22
20.000 ~ 29.999	60 / 80	Fundmental	SX-32 / SX-22
30.000 ~ 54.000	50 / 50	Fundmental	SX-32 / SX-22

MECHANICAL DIMENSIONS

