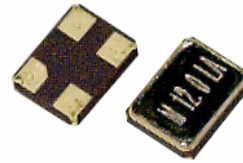




RoHS Compliance



■ Features

- RoHS compliant and lead-free product
- The whole package is grounded via the top metal lid and the two bottom pads
- Small footprint. Ideal for space constrained products
- Extremely low aging. High shock and vibration resistance

General Specifications

Item / Type	X32 series (3.2 * 2.5 * 0.7 mm)
Frequency Range	12.000 ~ 60.000 MHz
Crystal Cut	Fundamental Mode , AT-Cut
Load Capacitance	Series Resonance or Parallel (8 to 32 pF typical)
Drive Level	10μ W (100μ W max.)
Frequency Tolerance	± 5 ppm , ± 10 ppm , ± 20 ppm or ± 30 ppm at 25°C
Frequency Stability	See Table 2
Aging	ΔF / F : ±3 ppm / year (max.)
Storage Temperature Range	- 50°C to 105°C

Table 1
Series Resistance (max.)

Frequency / Type	X32
12.000 ~ 20.000 MHz	100 Ω max.
20.100 ~ 60.000 MHz	60Ω max

Table 2
Frequency stability Vs Operating temperature range

Temp. (°C) \ ppm		± 5	± 10	± 15	± 20	± 25	± 30
X	-10 to 60°C	○	○	○	○	○	○
Y	-20 to 70°C	▲	○	○	○	○	○
I	-40 to 85°C			○	○	○	○

○ : available ; ▲: contact Mercury

Outline Dimensions (Unit : mm)

