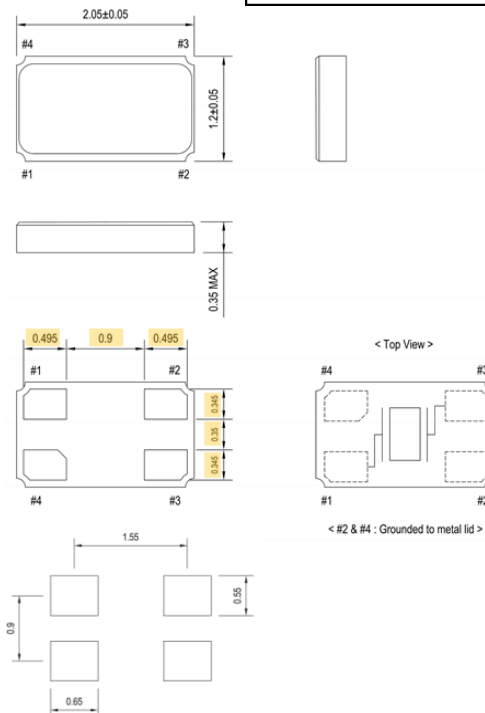
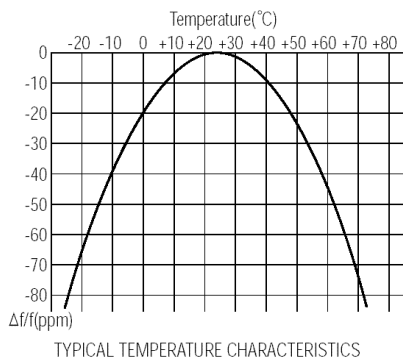


1. Part No. :	212M327B(4P), 212M327-6B(4P), 212M327-7B(4P), 212M327-9B(4P)
2. Nominal frequency (F) :	32.768 kHz
3. Package type :	<b>212SMX(4P)</b>
4. Frequency tolerance (df/F) :	±20 ppm (±0.002%) at +25°C ±3°C
5. Load capacitance (CL) :	12.5 pF ± 1.0 pF ... 212M327B(4P) 6.0 pF ± 1.0 pF ... 212M327-6B(4P) 7.0 pF ± 1.0 pF ... 212M327-7B(4P) 9.0 pF ± 1.0 pF ... 212M327-9B(4P)
6. Series resistance (Rs) :	75 k ohms max.
7. Drive level (P) :	0.1 μW, Typical (1.0 μW max.)
8. Quality factor (Q) :	10000, Typical
9. Turnover temperature (TT) :	+25°C ±5°C
10. Parabolic curvature constant (K) :	-0.033 ppm/°C <sup>2</sup> , Typical (-0.04 ppm/°C <sup>2</sup> max.)
11. Shunt capacitance (C0) :	0.8 pF, Typical(1.5 pF max.)
12. Capacitance ratio (C0/C1) :	200, Typical
13. Motional capacitance (C1) :	0.0040 pF, Typical
14. Aging (df/F) :	First year : ±3 ppm max. at +25°C ±3°C
15. Operating temperature range (TO) :	-40°C to +85°C
16. Storage temperature range (TS) :	-55°C to +125°C
17. Insulation resistance:	500M ohms at 100V DC
18. Reflow soldering condition :	10 seconds at +260°C ± 10°C (2 times max)
19. Shock (df/F) :	±5 ppm max.
20. Vibration (df/F) :	±5 ppm max.
21. Crystal test equipment :	140B (Saunders, U. S. A)
22. Outline dimensions :	See below

**212SMX(4P)**Directive 2002/95/EC  
Pb-free

mm

**SMI**

ITEM.

**QUARTZ CRYSTAL UNITS**

No.

**SX-6473A**