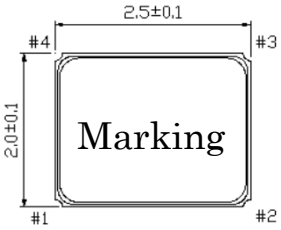
CONFIDENTIAL

1. Specification

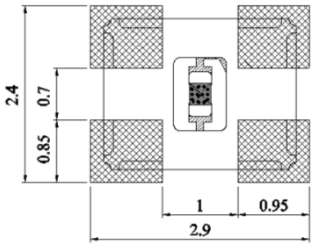
No.	Parameters	Requirements
1	Package type	2.5x2.0mm (TH+X'TAL)
2	Nominal frequency	26.000000 MHz
3	Mode of vibration	AT-cut / Fundamental
4	Operating temperature	-30 to +85 deg.C
5	Storage temperature	-40 to +85 deg.C
6	Frequency stability	+/-10.0 ppm (-25 to +85 deg.C, Ref. 25 deg.C)
7	Frequency tolerance	+/-10.0 ppm at 25+/-3 deg.C
8	Motional resistance [ESR]	30 ohm max.
9	Spurious mode series resistance	0.5 Kohm min (at +/-1 MHz)
10	G sensitivity	2 ppb/G (Gamma vector of all three axes from 30Hz to 1.5KHZ)
11	Full cycle temperature hysteresis	0.5 ppm max.（T_use = -40 deg.C to +85 deg.C）
12	Small cycle temperature hysteresis	0.05 ppm max. 5℃ Small Orbit Hysteresis, T_use = -40 deg.Cto +85 deg.C Example: 25→30→ 25 deg.C
13	Load capacitance [CL]	7.8 pF
14	Tuning sensitivity (TS)	28.0 ppm/pF +/- 10% at CL=7.0pF
15	Shunt capacitance [C0]	1.0 pF +/- 10%
16	Motional capacitance [C1]	3.60 fF +/- 10%
17	Motional Inductance [L1]	10.4 mH +/- 10%
18	Insulation resistance	500 M ohms min. / DC 100V +/- 15V
19	Level of drive	100 uW max.
20	Frequency perturbation	+/-0.5 ppm (Drive level = 100 uW) 3rd polynomial fitting curve
21	Frequency aging	'+/-1.0 ppm / first year at 25 deg.C '+/-1.5 ppm / second year at 25 deg.C '+/-2.5 ppm / 5years at 25 deg.C '+/-5.0 ppm / 10years at 25 deg.C
22	1st order coefficient	-0.1 to -0.35 ppm/deg.C
23	2nd order coefficient	-5.0 to -12.0x e-4 ppm/deg.C^2
24	3rd order coefficient	8.7 to 11.0x e-5 ppm/deg.C^3
25	Fitting error slope	+/- 0.05 ppm (-10 to +60 deg.C) +/- 0.1 ppm (-30 to +85 deg.C)
26	DLD2	2.5 ohm max. (0.01 to 100 uW)
27	DLDH2	1.5 ohm max. (0.01 to 100 uW)
28	FDLD	2.0 ppm max. (0.01 to 100 uW)
29	FDLDH	0.7 ppm max. (0.01 to 100 uW)
30	Thermistor size	0201(0.6x0.3x0.3mm)
31	Thermistor resistance (25℃)	Used thermistor is 100Kohm +/- 1%
32	Thermistor B-Constant (25/50℃)	Used thermistor is 4250K +/- 1%

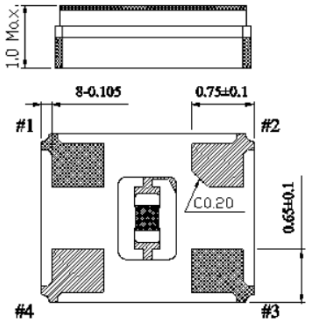
2. Dimension and Marking (Example)



Pin	Connection
1	Xtal
2	GND,thermistor
3	Xtal
4	thermistor

[Footprint]





Marking

Laser marking

Package

Lid :KOVAR,
Electrolytic Ni plating
Base :Ceramic, W+Ni+Au plated
Seal :Seam Weld