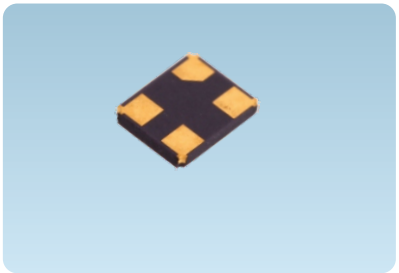
LIMING
利　明

3. 2×2. 5×0.7mm typ

12MHz up to 60MHz



Feature

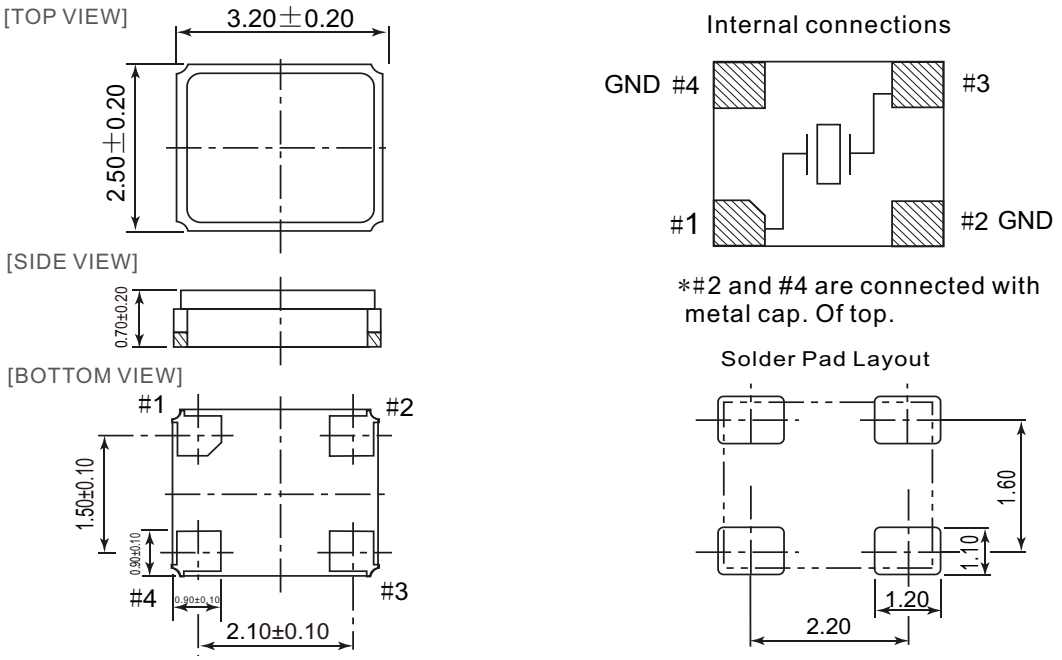
A small surface mount type crystal unit, especially suited for small-sizing requirements.

- Ultra compact and thin.(3.2×2.5×0.7 mm typ.)
- Tight Tolerance 10ppm available.
- Application:Bluetooth ;Mobile phone;W-LAN;Office Automation; Audio & Visual.
- Meets the requirements for re-flow profiling using lead-free solder.

Specifications

Item \ Type	TX3-Type			
Frequency Range	12~13MHz	13~19.5MHz	19.5~27MHz	27~60MHz
Oscillator Mode	Fundamental			
Load Capacitance	Series,6~32pf,or speecify			
Drive Level	10μW(200μW max.)			
Frequency Tolerance	$\pm10\times10^{-6}$,$\pm20\times10^{-6}$,$\pm30\times10^{-6}$,$\pm50\times10^{-6}$ (at 25°C)			
Series Resistance	150Ω max.	80Ω max.	60Ω max.	50Ω max.
Operating Temperature Range	-10~+60°C, -20~+70°C, -40~+85°C			
Storage Temperature Range	-55~+125°C			
Packing Unit	3000pcs/reel(Ø180)			

Outline Drawing(mm)



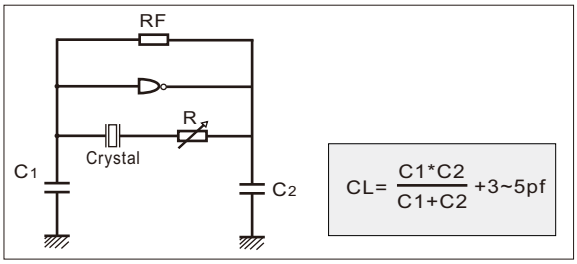
Frequency Stability Vs. Temperature Range

Temp.(°C) \ Ppm	±5	±10	±15
-10 ~ +60	+	✓	✓
-20 ~ +70	×	✓	✓
-40 ~ +85	×	×	+

Temp.(°C) \ Ppm	±15	±20	±30	±50
-40 ~ +105	+	✓	✓	✓
-40 ~ +125	×	×	+	✓

✓ Available + Conditional × Not Available

Oscillation Circuit of Fundamental Mode



Model Numbering Guide – Crystal Units

Available options

①		②	③	④		⑤					
Type	package (mm)	Frequency range	Load Capacitance (pF)	Freq. Tol. @25°C (ppm)	Freq. Stability (ppm)	Temp. Range(°C)	Special Requirement	Osc illator Mo de	Appearance	Lead Free	Dash
1612	1.6x1.2	3.00~100.00MHZ	6 7 8 9 10 12 15 16 18 20 22 25 30 32	± 5 ± 10 ± 15 ± 20 ± 25 ± 30 ± 40 ± 50 ± 100 ± 150	± 5 ± 10 ± 15 ± 20 ± 25 ± 30 ± 40 ± 50 ± 100 ± 150	A:-20~+70 B:-40~+85 J :-40~+105	For Automotive Spurious DLD No Special Pullability Several	AT Funda mental AT 3rd Overto ne	Normal	RoHs Compliant	–
2016	2.0x1.6										
2520	2.5x2.0										
3225	3.2x2.5										
5032	5.0x3.2 (4Pads)										
6035	6.0x3.5										
3225	3.2x2.5										
5032	5.0x3.2 (2Pads)										
8045	8.0x4.5										
49S	11.1x4.68										
49MD	13.0x4.85										

example

① ② ③ ④ ⑤

① package ② Frequency range ③ Load Capacitance ④ Freq. Tol. @25°C X10-6,+25℃) ⑤ Temp. Range(°C)

3225 - 12.00 - 20 - 20 - 20 / A

① ② ③ ④ ⑤

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