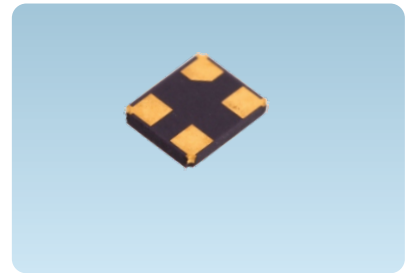




3.2×2.5×0.7mm typ

12MHz up to 60MHz



Feature

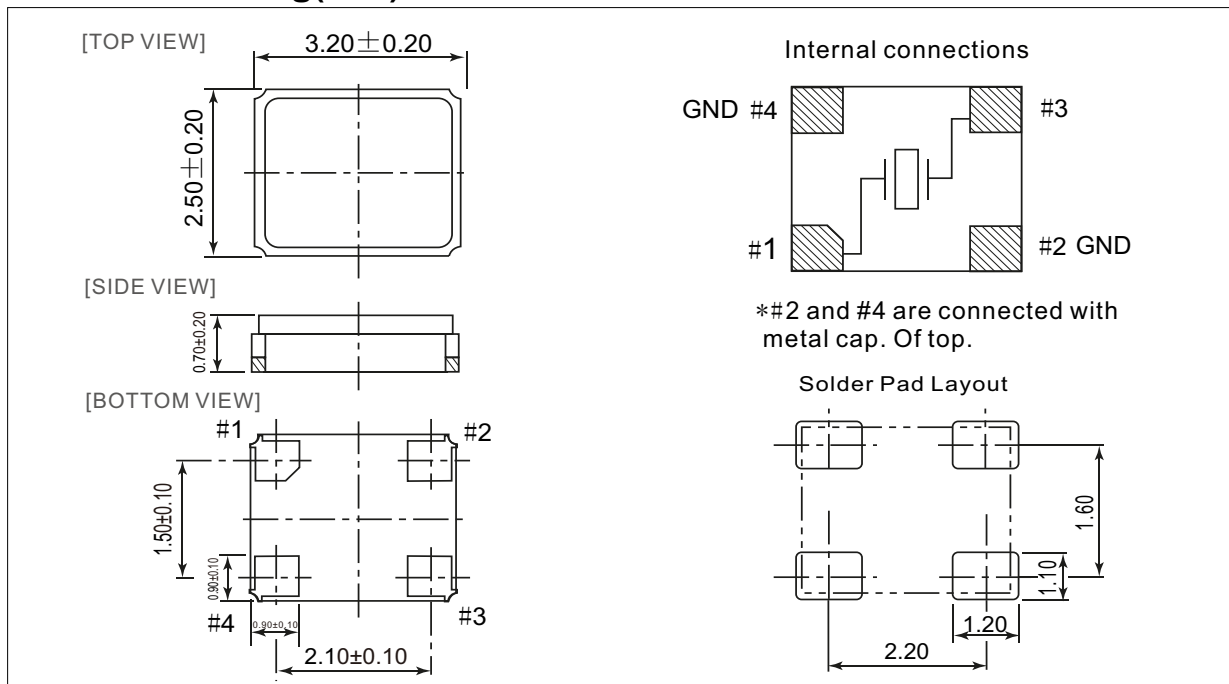
A small surface mount type crystal unit, especially suited for small-sizing requirements.

- 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			
		12~13MHz	13~19.5MHz	19.5~27MHz	27~60MHz
Frequency Range		12~13MHz	13~19.5MHz	19.5~27MHz	27~60MHz
Oscillator Mode		Fundamental			
Load Capacitance		Series, 6~32pf, or specify			
Drive Level		10μW(200μW max.)			
Frequency Tolerance		±10×10 ⁻⁶ , ±20×10 ⁻⁶ , ±30×10 ⁻⁶ , ±50×10 ⁻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)



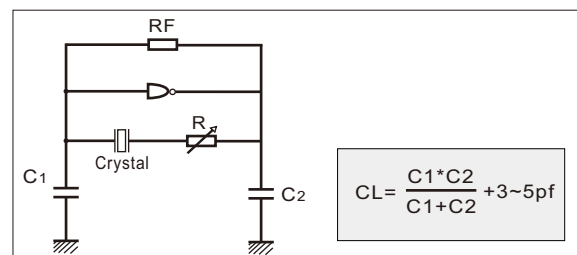
Frequency Stability Vs. Temperature Range

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	Oscillator Mode	Appearance	Lead Free	Dash
1612	1.6x1.2	3.00~100.00MHZ	6	± 5	± 5	A:~20~+70 B:~40~+85 J:~40~+105	For Automotive Spurious DLD No Special Pullability Several	AT Fundamental AT 3 rd Overtone	Normal	RoHs Compliant	-
2016	2.0x1.6		7	± 10	± 10						
2520	2.5x2.0		8	± 15	± 15						
3225	3.2x2.5		9	± 20	± 20						
5032	5.0x3.2 (4Pads)		10	± 25	± 25						
6035	6.0x3.5		12	± 30	± 30						
3225	3.2x2.5		15	± 40	± 40						
5032	5.0x3.2 (2Pads)		16	± 50	± 50						
8045	8.0x4.5		18	± 100	± 100						
49S	11.1x4.68		20	± 150	± 150						
49MD	13.0x4.85		22								
			25								
		30									
		32									

example



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

3225-12.00-20-20-A

① ② ③ ④ ⑤

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Crystals](#) category:

Click to view products by [Liming](#) manufacturer:

Other Similar products are found below :

[CX3225GB25000M0PPSZ1](#) [718-13.2-1](#) [MC405 32.0000K-R3:PURE SN](#) [7A-40.000MAAE-T](#) [FL2000085](#) [99-BU](#) [9B-15.360MBBK-B](#) [9C-7.680MBBK-T](#) [H10S-12.000-18-EXT-TR](#) [ABC2-6.000MHZ-D4Z-T](#) [ABLS-20.000MHZ-D2-T](#) [ABS071-32.768KHZ-6-T](#) [R38-32.768-12.5-5PPM-NPB](#) [BTD1062E05A-513](#) [21U15A-21.4MHZ](#) [RTX-781DF1-S-20.950](#) [LFXTAL066198Cutt](#) [9C-14.31818MBBK-T](#) [A-11.000MHZ-27](#) [ABL-27.000MHZ-B4Y-T](#) [ABM11-132-24.000MHZ-T3](#) [ABM3B1-25.000MHZ-D2Y-T](#) [SPT2A-.032768B](#) [SPT2A.032768G](#) [SSPT7F-9PF20-R](#) [FX325BS-38.88EEM1201](#) [LFXTAL065253Cutt](#) [LFXTAL066431Cutt](#) [XT9S20ANA14M7456](#) [XT9SNLANA16M](#) [7A-24.576MBBK-T](#) [7B-30.000MBBK-T](#) [MMCC2R32.7680KHZ](#) [7A-14.31818MBBK-T](#) [6504-202-1501](#) [6526-202-1501](#) [ABLS-12.000MHZ-B2Y-T](#) [7A-10.000MBBK-T](#) [SG636PCE-20.000MC](#) [3404](#) [E1SAA18-25.000M TR](#) [CM315D32768EZFT](#) [C1E-24.000-7-2020-R](#) [C1E-19.200-12-1530-X-R](#) [C1E-16.000-12-1530-X-R](#) [ABM11-16.000MHZ-9-B1U-T](#) [FL5000014](#) [EUCA18-3.1872M](#) [FX0800015](#) [425F35E027M0000](#)