

Actual Size 

XX Type Crystal

RoHS Compliant Standard

FEATURE

1. Typical 3.2 × 2.5 × 0.6 mm ultra thin ceramic package.
2. 2.8 mm width Tape & Reel package for automatic assembly.
3. Tight tolerance 10 ppm available.
4. Packing : Tape & Reel, 1000/2000/3000/5000 pcs per Reel.

ORDERING INFORMATION

Select option

X'tal	Package	Load Capacitance (pF)	Freq. Tol. @ 25°C (ppm)	Freq. Stability (ppm)	Temp. Range (°C)	Special Requirement	Oscillator Mode	Appearance	Lead Free	Dash	Freq. (MHz)
	3.2×2.5	A : 8 B : 9 C : 10 D : 12 F : 16 G : 18 H : 20 I : 30 J : 32 S : Series	B : ± 10 P : ± 15 C : ± 20 D : ± 25 E : ± 30 G : ± 50 H : ± 100	A : ± 5 B : ± 10 P : ± 15 C : ± 20 D : ± 25 E : ± 30 G : ± 50 H : ± 100	I : -10~+60 C : -20~+70 L : -40~+85	B : Spurious D : DLD H : High C1 L : Low C1 N : No Special P : Pullability Q : Q Value S : Several	A : AT Fundamental	N : Normal	F : RoHS Compliant		XX.XXXXX

X	X									-	
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Example XXBBBINANF-16.000000

X'TAL X-TYPE; CL: 9pF, Freq. Tolerance: ±10ppm, Freq. Stability: ±10ppm; Temp. Range: -10°C to +60°C, No Special Requirement; AT Fundamental; Normal Appearance; RoHS Compliant; Freq. 16.000000MHz.

* Not all combinations of options are available.

ELECTRICAL SPECIFICATION

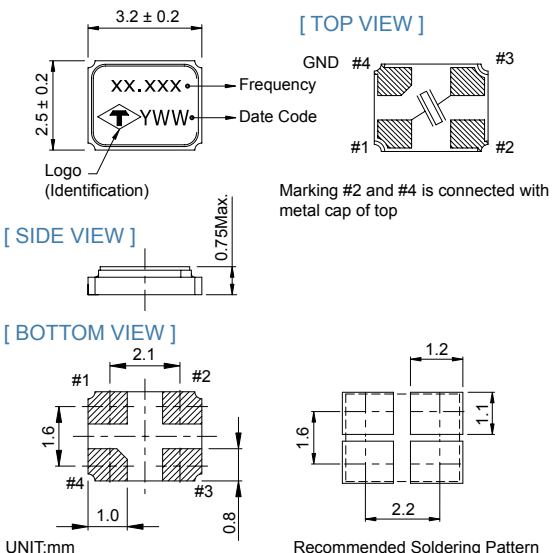
Storage Temp. Range	-55°C~125°C
Drive Level	10 μW typical, 100 μW Max.
Shunt Capacitance (Co)	7.0 pF Max.
Insulation Resistance	500MΩ Min. @ DC 100V
Aging	±1.0ppm/year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

EQUIVALENT SERIES RESISTANCE(ESR)

TYPE FREQUENCY	MODE	E.S.R
12MHz ≤ Freq ≤ 13MHz	A1	150 Ω
13MHz < Freq ≤ 19.5MHz	A1	80 Ω
19.5MHz < Freq ≤ 27MHz	A1	60 Ω
27MHz < Freq ≤ 48MHz	A1	50 Ω

OUTLINE DRAWING



STANDARD FREQUENCY(MHz)


16, 19.5, 24, 26

FREQ. STABILITY vs. TEMP. RANGE

Temp (°C)	ppm	A : ±5	B : ±10	P : ±15
I	-10~+60	△	○	○
C	-20~+70	×	○	○
L	-40~+85	×	×	○

○:Standard △:Available (case by case) ×:Not available

MARK

- 1 XX.XXX = FREQUENCY (MHz)
 YWW
 Y = LAST DIGIT OF YEAR
 WW = WEEK NO.
- 2 MARK BY CUSTOMER
 Max. LINE 2 LINES
 Max. CODE OF LINE 6 CODES

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 AT-0002-4 P.1/1
 Jan. 1. 2008