

XX Type Crystal

RoHS Compliant Standard

preliminary

FEATURE

1. Typical 3.2 x 2.5 x 0.6 mm ultra thin ceramic package.
2. 12 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.



Actual Size

ORDERING INFORMATION

X	X	B	B	B	I	N	A	N	F	-	?
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)
	3.2x2.5	A: 8 B: 9 C: 10 D: 12 F: 16 G: 18 H: 20 J: 32 S: Series	A: ±5 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 Requested D: DLD Requested H: High C1 Requested L: Low C1 Requested N: No Special P: Pullability Requested Q: Q Value Requested S: Several Requested	A: AT Fundamental	N: Normal	F: RoHS Compliant		xx.xxxxxx

Ordering Example : XXBBBINANF-16.000000MHZ

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.

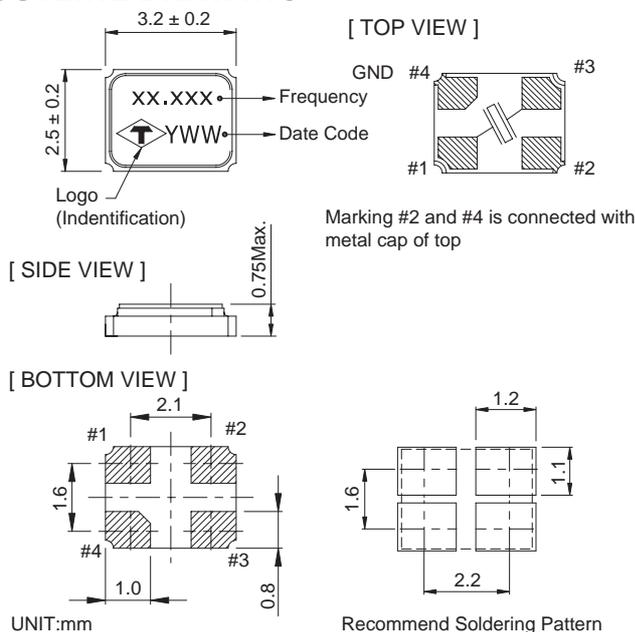
ELECTRICAL SPECIFICATION

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

EQUIVALENT SERIES RESISTANCE

TYPE FREQUENCY	MODE	E.S.R
13MHz ≤ Freq	A1	150
13MHz < Freq ≤ 19.5MHz	A1	100
19.5MHz < Freq ≤ 27MHz	A1	80
27MHz < Freq ≤ 48MHz	A1	60

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	X	○	○
L -40 ~ +85	X	X	○

○: Standard X: Not available

△: Available (case by case)

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