

XC Type Crystal

RoHS Compliant Standard

FEATURE

1. Typical 7.0 x 5.0 x 1.0mm ceramic SMD package.
2. 16 mm width Tape & Reel package for automatic assembly.
3. Good aging.
4. Packing : Tape & Reel, 1000/3000 pcs per Reel.



Actual Size 

ORDERING INFORMATION

X	C	H	B	C	L	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)
	7x5	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	A: ± 5 B: ±10 P: ±15 C: ±20 D: ±25 E: ±30	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 T: AT 3 rd Overtone	N: Normal	F: RoHS Compliant		xx.xxxxxx

Ordering example: XCHBCLNANF-14.318180MHz

X'TAL C-TYPE; CL: 20pF; Freq. Tolerance: ±10ppm; Freq. Stability: ±20ppm; Temp Range: -40°C to +85°C. No Special Requirement, AT Fundamental; Normal Appearance; RoHS Compliant; Freq. 14.318180MHz.

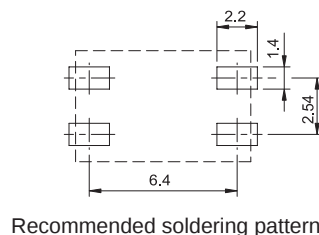
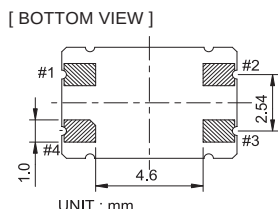
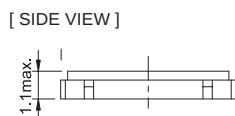
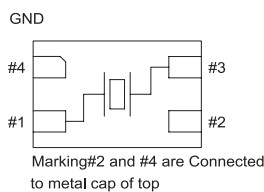
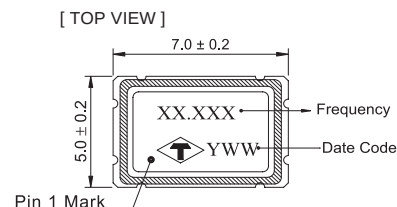
ELECTRICAL SPECIFICATION

Storage Temp. Range	-55°C ~ 125°C
Drive Level	10 μ W typical
Shunt Capacitance (Co)	7.0 pF Max.
Insulation Resistance	500M Ω Min. @ DC 100V
Aging	First year ± 5ppm Sub-year ± 5ppm

EQUIVALENT SERIES RESISTANCE(ESR)

TYPE FREQUENCY	MODE	E.S.R
8MHz ≤ Freq < 11.0MHz	AT1	< 110 Ω
11MHz ≤ Freq < 14.1MHz	AT1	< 50 Ω
14.1MHz ≤ Freq < 18MHz	AT1	< 45 Ω
18MHz ≤ Freq < 20.1MHz	AT1	< 30 Ω
20.1MHz ≤ Freq	AT1	< 25 Ω
32.0MHz ≤ Freq < 48MHz	AT3	< 110 Ω
48.0MHz ≤ Freq < 70MHz	AT3	< 100 Ω

OUTLINE DRAWING



FREQ. STABILITY vs. TEMP. RANGE

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

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

MARK

1 XX.XXX = FREQUENCY (MHz)



Y = LAST DIGIT OF YEAR

WW = WEEK NO.

2 MARK BY CUSTOMER

Max. LINE 3 LINES

Max. CODE OF LINE 6 CODES