



XU1, XU5

- ◆ Excellent frequency-temperature characteristics extending across a wide temperature range.
- ◆ Excellent aging characteristics.
- ◆ High quality quartz crystal units for communication equipment and measuring instrument.

Table1 Specifications

Parameter	XU1	XU5
Frequency Range	6~200MHz	8~200MHz
Vibration Mode	AT Cut / Fund, 3 rd , 5 th , 7 th Over Tune	
Frequency Tolerance (@25°C±2°C)	±5~±20ppm, ±10ppm typical	
Frequency Stability vs Operation Temperature Range	See Table 2	
Resonance Resistance	See Table 3	
Shunt Capacitance	7pF max	
Load Capacitance	6pF~∞, Series	
Drive Level	2uW~500uW	
Insulation Resistance	500MΩ @DC100V	
Aging	±1, ±2ppm/year	
Package	XU1-2L XU1-3L	XU5-2L XU5-3L
Package Option	-MJ: Mounted & Jacket -T: Tape and Reel	-B : Leads Diameter are 0.45mm

Table2 Frequency Stability vs Operation Temperature Range(Ref to 25°C) & Option Code

	±3ppm	±5ppm	±10ppm	±20ppm
0~50°C	A03	A05	A10	A20
-10~60°C	B03	B05	B10	B20
-20~70°C		C05	C10	C20
-30~80°C			D10	D20
-40~85°C				E20

Table3 Resonance Resistance

Frequency	Vib.Mode	XU1,XU5
5~12MHz	Fund.	40 Ω
12~50MHz	Fund	20 Ω
35~120MHz	3 rd O.T.	40 Ω
75~200MHz	5 th O.T.	70 Ω
100~200MHz	7 th O.T.	100 Ω

Thru-Hole Crystals Part Numbering Key

SERIES	CIRCUIT CONDITION	FREQ. TOLERANC @25°C	MODE	FREQ. STABILIT vs.TEMP	PACKAGE	PACKAGE OPTIONS	FREQUENCY
XU1 XU5	S=Series 6P, 8P 10P, 12P 15P, 20P ext.	±5~±20ppm	F=Fundamental 3=3 rd O.T. 5=5 th O.T. 7=7 th O.T.	See Table2	UM1-2L UM1-3L UM5-2L UM5-3L	See Table1	
XU5	15P	10	F	B10	-2L	-MJ,-T	32.768MHz
XU1	20P	10	3	C10	-2L	-B	75.7875MHz

Sample Part Numbers

XU5-15P10FB10-2L-MJ-T
@32.768Mhz

XU1-20P103C10-2L-B
@75.7875MHz

Package XU1-2L, XU5-2L Unit:mm

Type	XU1	XU5
H	8max	6max

Option	Normal	-B
Φ	0.35	0.45

Package XU1-3L, XU5-3L Unit:mm

Type	XU1	XU5
H	8max	6max

Option	Normal	-B
Φ	0.35	0.45

Package XU1-2L-MJ, XU5-2L-MJ Unit:mm

Type	XU1	XU5
H1	12.5max	10.5max
H2	8.2max	6.2max

Marking (ink or laser)

- 1.Frequency: (unit:M=MHz,K=KHz)
- 2.Company Name: BCE
- 3.Product Batch Number: Year + week

TAPE & REEL

Outline in mm - Tape

XU5-MJ

XU1-MJ

Outline in mm - Reel