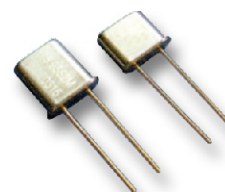


XU1, XU5



- 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, 3rd, 5th, 7th Over Tune	
Frequency Tolerance(@25°C ±2°C)	±5~±20ppm, ±10ppm typical	
Frequency Stability vs Operation	See Table 2	
Temperature Range		
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
-30~75°C			D10	D20
-40~85°C				E20

Table3 Resonance Resistance

Frequency	Vib. Mode	XU1, XU5
6~12MHz	Fund.	40Ω
12~50MHz	Fund.	20Ω
35~120MHz	3rd O.T.	40Ω
75~200MHz	5th O.T.	70Ω
100~200MHz	7th O.T.	100Ω

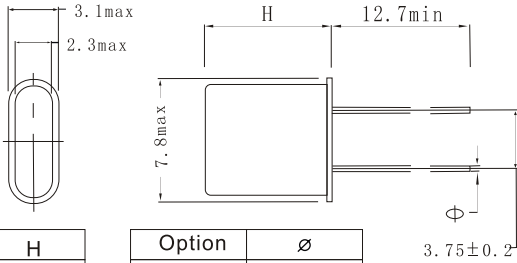
Thru-Hole Crystals

Part Numbering Key

Sample Part Numbers
 XU5-15P10FB10-2L-MJ-T
 @32768MHz
 XU1-20P103C10-2L-B
 @75.7875MHz

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

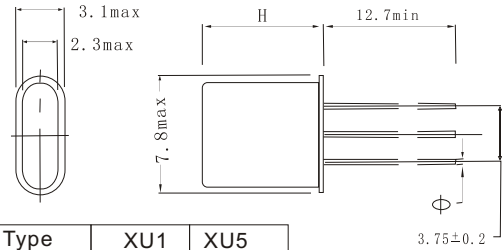
Package XU1-2L,XU5-2L Unit:mm



Package	H
XU1	8max
XU5	6max

Option	∅
Normal	0.35±0.05
-B	0.45±0.05

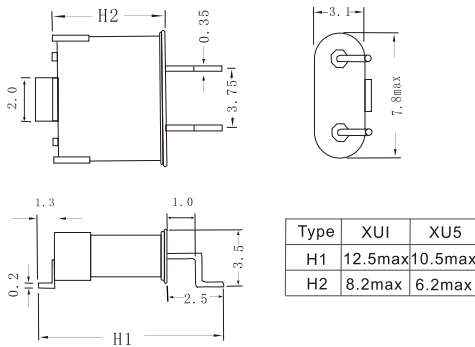
Package XU1-3L,XU5-3L Unit:mm



Type	XU1	XU5
H	8max	6max

Option	Normal	-B
∅	0.35	0.45

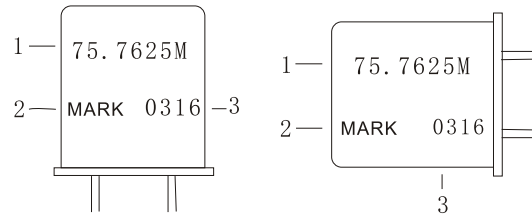
Package XU1-2L-MJ,XU5-2L-MJ Unit:mm



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

Marking(ink or laser)

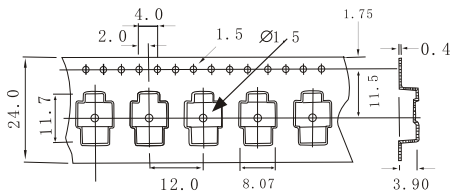
- 1.Frequency:(Unit:M=MHz,K=KHz)
- 2.Company Name: Mxtal
- 3.Product Batch Number: Year + Week



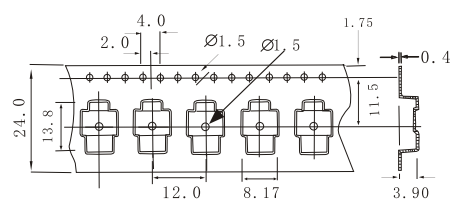
TAPE&REEL

Outline in mm - Tape

XU5-MJ



XU1-MJ



Outline in mm - Reel

