



## XC38

- Cylinder Vacuum Sealed.
- Small Size.
- High quality quartz crystal units with Low Cost.

Table1 Specifications

Parameter	XC38
Frequency Range	3.579~27MHz
Vibration Mode	ATCut/Fund Over Tune
Frequency Tolerance(@25°C ±2°C)	±15ppm, ±20ppm, ±30ppm, ±50ppm
Frequency Stability vs Operation	See Table 2
Temperature Range	
Resonance Resistance	See Table 3
Shunt Capacitance	5pF max
Load Capacitance	Series 12P,16P,20P,32P ext.
Drive Level	10uW~100 uW
Insulation Resistance	500MΩ @DC100V
Aging	±3ppm/year
Package	C308,C309,C310
Storage Temperature	-30~+80°C

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

	±15ppm	±20ppm	±30ppm	±50ppm
0~50°C	A15	A20	A10	A20
-10~60°C	B15	B20	B10	B20
-20~70°C		C20	C10	C20

Table3 Resonance Resistance

Frequency	Vib.Mode	XC38
3.579~4.5MHz	AT/Fund.	150Ω
4.5~5MHz	AT/Fund.	120Ω
5~7MHz	AT/Fund.	100Ω
7~10MHz	AT/Fund.	80Ω
10~12MHz	AT/Fund..	70Ω
12~14MHz	AT/Fund.	60Ω
14~16MHz	AT/Fund.	40Ω
16~27MHz	AT/Fund.	25Ω

Cylinder Crystals

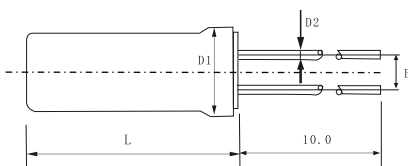
Part Numbering Key

Sample Part Numbers

XC38-12P20FB20-C309

@14.318MHz

SERIES	CIRCUIT CONDITION	FREQ. TOLERANCE @25°C	MODE	FREQ. STABILITY vs. TEMP	PACKAGE	FREQUENCY
XC38	S=Series 12p,16p 20p,32P ext	±15ppm ±20ppm ±30ppm ±50ppm	F=Fundamental	See Table2	C308 C309 C310	
XC38	12p	20	F	B20	-C309	14.318MHz



Package	L	D1	D2	B
C308	8.3	∅3.1	∅0.3	0.8
C309	9.3	∅3.1	∅0.3	1.1
C310	10.3	∅3.1	∅0.3	1.1