



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	AT Cut / Fund Over Tune
Frequency Tolerance (@25°C±2°C)	±15ppm, ±20ppm, ±30ppm, ±50ppm
Frequency Stability vs Operation Temperature Range	See Table 2
Resonance Resistance	See Table 3
Shunt Capacitance	5pF max
Load Capacitance	Series 12P,16P, 20P, 32P ext.
Drive Level	10uW~100uW
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	XU1,XU5
3.579~4.5MHz	AT/Fund.	150 Ω
4.5~5MHz	AT/Fund	120 Ω
5~7MHz	AT/Fund	100 Ω
7~10MHz	AT/Fund	80 Ω
10~12MHz	AT/Fund	70 Ω
12~14MHz	AT/Fund	60 Ω
14~16MHz	AT/Fund	40 Ω
16~27MHz	AT/Fund	25 Ω

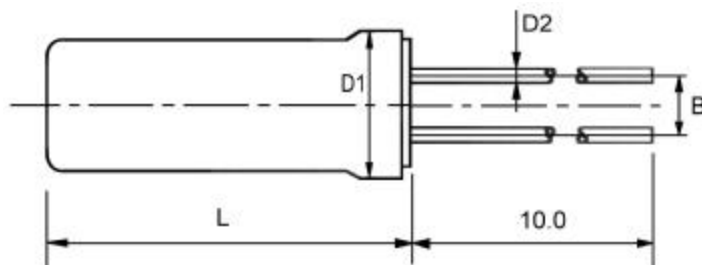
Cylinder Crystals

Sample Part Numbers

XC38-12P20FB20-C309
@14.318Mhz

Part Numbering Key

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	Φ3.1	Φ0.3	0.8
C309	9.3	Φ3.1	Φ0.3	1.1
C310	10.3	Φ3.1	Φ0.3	1.1