



CYLINDER TYPE CRYSTAL

($\phi 3 \times 9$ / $\phi 3 \times 8$ / $\phi 2 \times 6$)

FEATURES

- Small size
- Good Frequency Stability
- Outstanding shock resistance, vibration resistance, environmental characteristics



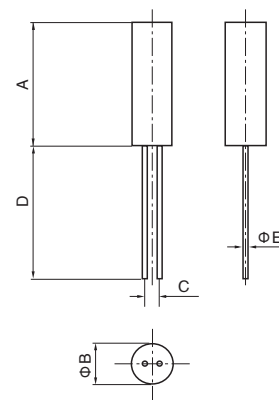
SPECIFICATIONS

ITEM	DESCRIPTION
Frequency range	3.579000MHz~50.000000MHz
Frequency Tolerance(at 25°C)	± 30ppm(STD)、± 3ppm ~ ± 50ppm or specify
Operating Temperature Range	-10°C~+60°C、-20°C~+70°C、-40°C~+85°C or specify
Frequency Stability Over Operating Temp Characteristics	± 30ppm(STD)、± 3ppm ~ ± 50ppm or specify
Equivalent Series Resistance	see table No.1
Storage Temperature Range	-40°C ~ +85°C
Shunt Capacitance (Co)	5.0pF Max
Load Capacitance (CL)	series 12pF、16pF、18pF、20pF or specify
Drive Level	10uw~100uw
Insulation Resistance	500M ohms Min / DC 100V
Aging	± 3ppm/year

EQUIVALENT SERIES RESISTANCE(ESR) TABLE No.1

Frequency Range	Mode	ESR(Ω)
3.579MHz~3.999MHz	Fundamental	180Max
4.000MHz~4.499MHz	Fundamental	150Max
4.500MHz~4.999MHz	Fundamental	120Max
5.000MHz~6.999MHz	Fundamental	100Max
7.000MHz~9.999MHz	Fundamental	80Max
10.000MHz~11.999MHz	Fundamental	60Max
12.000MHz~29.999MHz	Fundamental	40Max
30.000MHz~50.000MHz	3rd Overtone	80Max

OUTLINE DIMENSIONS (mm)



MODE	A	B	C	D	E
$\phi 3 \times 9$ mm	9.3	3.1	1.1	10.0	0.35
$\phi 3 \times 8$ mm	8.3	3.1	1.1	10.0	0.26
$\phi 2 \times 6$ mm	6.3	1.95	0.7	7	0.2

PART NUMBER

TIM-	XC309	F	16.000000	± 30	± 50	-20°C~+70°C	20	40
Type	oscillator mode	Frequency(MHz)	Frequency tolerance (ppm)	temperature stability (ppm)	operating temperature range	Load capacitance(pf)	ESR(Ω) Max	
XC309: $\phi 3 \times 9$ mm	F:Fundamental	16.000000:	± 30: ± 30ppm	± 50: ± 50ppm		20:20pf		
XC308: $\phi 3 \times 8$ mm		16.000000MHz				00:SERIES	40:40 Ω Max	
XC206: $\phi 2 \times 6$ mm	3:3rd Overtone							