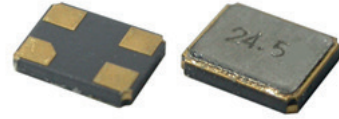


# X16 CERAMIC SURFACE-MOUNT CRYSTAL

## FEATURES

- Ultra miniature SMD package
- Very Low Ageing
- Excellent heat resistance and shock resistance
- Applications: Bluetooth, Wireless applications, IoT, ...

1.6 x 1.2 x 0.35 mm



Item	Symbol	Specification
Frequency Range	Fo	24 MHz ~ 60 MHz
Operation Mode		Fundamental
Operating temperature Range	To	-20° to +70°C (see options)
Frequency Tolerance at 25°C	Δf/F	± 50ppm max. (see options)
Temperature Stability	Δf/F	± 50ppm max. (see options)
Load Capacitance (CL)	CL	series or 6 pF to 32 pF (see options)
Equivalent Series Resistance	ESR	See Table 1
Shunt Capacitance (Co)	Co	3pF Max
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	10μW typical, 100μW max.
Aging	Δf/F	±1ppm max (at 25°C, first year)
Packing Unit		3000pcs / reel
Soldering Condition		260°C, 10 sec x2 max
		<b>Customer specifications on request</b>

## TABLE 1: Standard ESR

Frequency (MHz)	ESR (Ω) max.
24.0 - 29.9	100
30.0 - 36.9	60
37.0 - 60.0	50

## OPTIONS & ORDERING INFORMATION

X16-	.....	.....	.....	.....	.....	..... MHz	
	Freq. Tolerance	Freq. Stability	Operating Temp.	Load Capacitance	Mode	ESR if other than STD	Frequency in MHz
	10 = ±10 ppm	05 = ±5 ppm	D = -10° / +60°C	Please specify CL in pF or S for Series	F = Fundamental	Specify a value in Ω	Please specify the frequency in MHz
	15 = ±15 ppm	10 = ±10 ppm	E = 0° / +70°C				
	20 = ±20 ppm	15 = ±15 ppm	F = -20° / +70°C				
	25 = ±25 ppm	20 = ±20 ppm	G = -30° / +75°C				
	30 = ±30 ppm	25 = ±25 ppm	H = -30° / +85°C				
	50 = ±50 ppm	30 = ±30 ppm	K = -40° / +85°C				
		50 = ±50 ppm					

\* Note : Not all combinations are possible, please consult us.

## OUTLINE DIMENSIONS

