X632 CERAMIC SURFACE-MOUNT CRYSTAL

FEATURES

6.0 x 3.5 x 1.1 mm

- Not recommended for new designs
- SMD package, 2 pad version
- Excellent heat resistance and shock resistance
- Applications: PDA, Computers, Microprocessors

Item	Symbol	Specification
Frequency Range	Fo	8 MHz ~ 50 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 8 pF to 50 pF (see options)
Equivalent Series Resistance	ESR	See Table 1
Shunt Capacitance (Co)	Co	7pF Max
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	100μW typical, 300μW max.
Aging	Δf/F	±3ppm max (at 25°C, first year)
Packing Unit		1000pcs / reel
Soldering Condition		260°C, 10 sec x2 max
		Customer specifications on request

TABLE 1: Standard ESR

Frequency (MHz)	ESR (Ω) max.
8.0 - 9.99	100
10.0 - 15.9	60
16.0 - 50.0	40

OPTIONS & ORDERING INFORMATION

X632- .... - ..... MHz

Freq. Tolerance	Freq. Stability	Operating Temp.	Load Capacitance	Mode	ESR if other than STD	Frequency in MHz
10 = ±10 ppm	**10 =** ±10 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	**15 =** ±15 ppm	**E =** 0° / +70°C				
20 = ±20 ppm	**20 =** ±20 ppm	**F =** -20° / +70°C				
25 = ±25 ppm	**25 =** ±25 ppm	**G =** -30° / +75°C				
30 = ±30 ppm	**30 =** ±30 ppm	**H =** -30° / +85°C				
50 = ±50 ppm	**50 =** ±50 ppm	**K =** -40° / +85°C				

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

OUTLINE DIMENSIONS