X532 CERAMIC SURFACE-MOUNT CRYSTAL

FEATURES

- Not recommended for new designs
- Small SMD package, 2 pad version
- Excellent heat resistance and shock resistance
- Applications: Bluetooth, Wireless applications, Mobile phones,...

5.0 x 3.2 x 1.2 mm

Item	Symbol	Specification
Frequency Range	Fo	8 MHz ~ 80 MHz
Operation Mode		8.0 MHz ~ 48.0 MHz Fundamental 48.1 MHz ~ 80.0 MHz 3rd-overtone (see options)
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	5pF 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.	Frequency (MHz)	ESR (Ω) max.
8.0 - 9.99	100	48.0 - 80.0, 3rd overtone	70
10.0 - 19.9	60		
20.0 - 48.0	40		

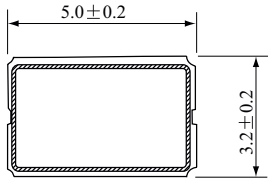
OPTIONS & ORDERING INFORMATION

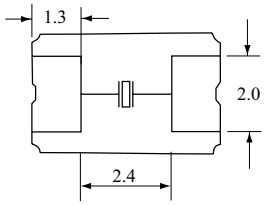
X532- .... - ..... MHz

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		**D** = 3rd overtone		
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





Recommended Solder Pattern