

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

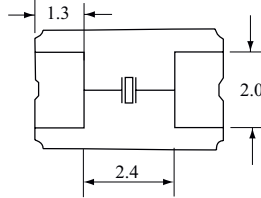
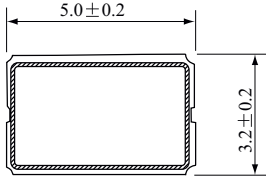
Frequency (MHz)	ESR (Ω) max.	Frequency (MHz)	ESR (Ω) max.
8.0 - 9.99	100	48.0 - 80.0, 3rd overtone	70
10.0 - 19.9	60		
20.0 - 48.0	40		

OPTIONS & ORDERING INFORMATION

X532-					 MHz	-
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Freq. Tolerance	Freq. Stability	Operating Temp.	Load Capacitance	Mode	Frequency in MHz	ESR if other than STD	
10 = ±10 ppm	10 = ±10 ppm	D = -10° / +60° C	Please specify CL in pF or S for Series	F = Fundamental	Please specify the frequency in MHz	Specify a value in Ω	
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

