

# X32 CRYSTAL



## Specifications

Parameters	Standard	Options
Frequency range	12,0 MHz - 54,000 MHz	
Frequency stability	Please specify	
Overall		
Initial at 25°C		
Temperature		
Aging first year		
Aging over .... Years		
Operating temperature	-10° C ~ +60°C	-20°C ~ +70°C
		-40°C to +85°C
Storage temperature	-40°C ~ +85°C	
Load capacitance Cl	12 pF ~ 120 pF or serie	
Equivalent series resistance ESR	see ESR table	
Shunt capacity Co	< 5 pF	
Aging	± 2 ppm /first year max.	
Insulation resistance	500 Mohms minimum at 100 VDC	
Drive level	0,01 to 100 uW 10uW recommended	
Marking	Freq + Week +Year	

## ESR table

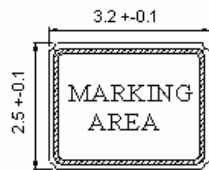
Frequency range	Mode	ESR ( ohms)
12,000 MHz - 19,999 MHz	Fund.	80 max.
20,000 MHz - 25,999 MHz	Fund.	70 max.
26,000 MHz - 54,000 MHz	Fund.	50 max.

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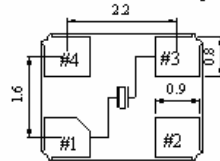
## Drawing

Package

X32



Internal connections (Top View)



Recommended Solder Pattern

