

# X75 CRYSTAL



## Specifications

Parameters	Standard	Options
Frequency range	8,000 MHz - 100,000 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 ~ +85°C
Storage temperature	-40°C ~ +85°C	-55°C ~ +125°C
Load capacitance Cl	8 pF ~ 120 pF or serie	
Equivalent series resistance ESR	see ESR table	
Shunt capacity Co	< 5 pF	
Aging	± 5 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

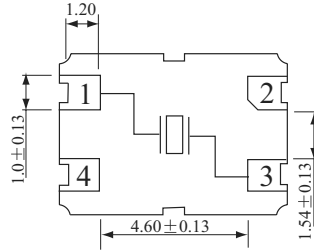
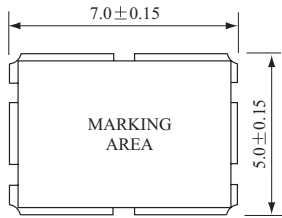
Frequency range	Mode	ESR ( ohms)
8,000 MHz - 10,999 MHz	Fund.	80 max.
11,000 MHz - 13,999 MHz	Fund.	60 max.
14,000 MHz - 19,999 MHz	Fund.	60 max.
20,000 MHz - 40,000 MHz	Fund.	40 max.
35,000 MHz - 80,000 MHz	3 rd	70 max.
80,000 MHz - 100,000 MHz	3 rd	60 max.

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## Drawing

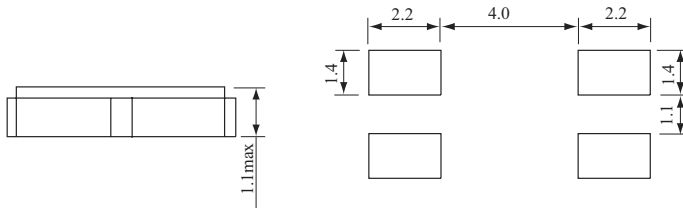
Package X75 4pad & X75 2pad

### X75 4 pad

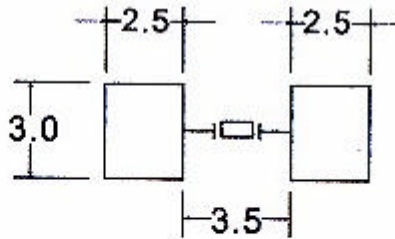
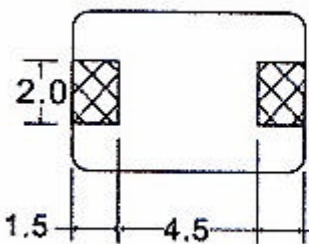
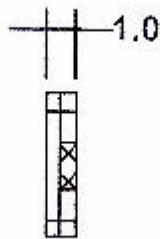
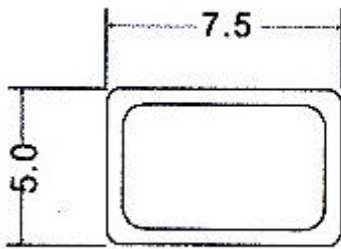


Note) Pin#2 and #4 are connected through cover, in case connected to GND. frequency might be drifted.

### Recommended Solder Pattern



### X75 2 pad



### SOLDER PAD PATTERN