



X135 CRYSTAL

Specifications

Parameters	Standard	Options
Frequency range	3,5 MHz - 90,000 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
Storage temperature	-40°C ~ +85°C	
Load capacitance Cl	10 pF ~ 120 pF or serie	
Equivalent series resistance ESR	see ESR table	
Shunt capacity Co	< 7 pF	
Aging	± 5 ppm /first year max.	
Insulation resistance	500 Mohms minimum at 100 VDC	
Drive level	0,5 mW	
Marking	Freq + Week +Year	

ESR table

Frequency range	Mode	ESR (ohms)
3,5 MHz - 3,99 MHz	Fund.	200 max.
4,0 MHz - 4,99 MHz	Fund.	150 max.
5,0 MHz - 5,99 MHz	Fund.	100 max.
6,0 MHz - 8,99 MHz	Fund.	80 max.
9,0 MHz - 9,99 MHz	Fund.	60 max.
10,0 MHz - 12,99 MHz	Fund.	50 max.
13,0 MHz - 18,99 MHz	Fund.	35 max.
19,0 MHz - 40,00 MHz	Fund.	25 max.
30,0 MHz - 90,00 MHz	3 ot	60 max.

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Drawing

Package

X135

