

49SM & 49SSM CRYSTAL



Specifications

Parameters	Standard	Options
Frequency range	3,200 MHz - 100,000 MHz	
Frequency stability	Please specify	
Overall		
Initial at 25°C		
Temperature		
Aging first year		
Aging over Years		
Operating temperature	0° C ~ +70°C	-20°C ~ +70°C -40°C ~ +85°C Other on custom request
Storage temperature	-40°C ~ +85°C	-55°C ~ +125°C
Load capacitance C1	10 pF ~ 120 pF or serie	
Equivalent series resistance ESR	see ESR table	Other on request
Shunt capacity Co	< 7 pF	Other
Aging	± 3 ppm /first year max.	Other on custom request
Insulation resistance	500 Mohms minimum at 100 VDC	
Drive level	10,0 to 1000 uW dependent of frequency	
Motional capacity C1	Please specify , if required	
Quality factor Q		
Co/C1		
Motional inductance L		
DFL (difference between 2 loadresonant frequencies)		
DLD (drive level dependency)		
Spurious		
Marking	Freq	

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ESR table

Frequency range	Mode	ESR (ohms)
3,200 MHz - 4,999 MHz	Fund.	200 max.
5,000 MHz - 5,999 MHz	Fund.	150 max.
6,000 MHz - 7,999 MHz	Fund.	120 max.
8,000 MHz - 8,999 MHz	Fund.	90 max.
9,000 MHz -9,999 MHz	Fund.	80 max.
10,000 MHz - 14,999 MHz	Fund.	70 max.
15,000 MHz - 15,999 MHz	Fund.	60 max.
16,000 MHz - 23,999 MHz	Fund.	50 max.
24,000 MHz - 39,999 MHz	Fund.	40 max.
24,000 MHz - 29,999 MHz	3 rd	150 max.
30,000 MHz - 100,000 MHz	3 rd	100 max.

Drawing

Package	49SM 4,3mm height 49SSM 3,2mm height
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