

TB39 CRYSTAL



Specifications

Parameters	Standard	Options
Frequency range	1,000 MHz - 100,000 MHz	
Frequency tolerance at 25°C	± 20 ppm	Other on custom request
Operating temperature range	-20°C ~ +70°C	Other on custom request
Temperature stability	± 30 ppm	Other on custom request
Load capacitance Cl	10 pF ~ 80 pF or serie	
Storage temperature	-40°C ~ +85°C	-55°C ~ +125°C
Equivalent series resistance ESR	see ESR table	
Aging	± 5 ppm/ first year	
Shunt capacity Co	< 5 pF	
Insulation resistance	500 Mohms minimum at 100 VDC	
Drive level	10,0 to 100 uW dependent of frequency	
Marking	Freq	

ESR table

Frequency range	Mode	ESR (ohms)
1.000 MHz - 3.999 MHz	Fund.	200 max.
4.000 MHz - 5.499 MHz	Fund.	150 max.
5.500 MHz - 5.999 MHz	Fund.	100 max.
6.000 MHz - 9.999 MHz	Fund.	80 max.
10.000 MHz - 11.999 MHz	Fund.	60 max.
12.000 MHz - 15.999 MHz	Fund.	50 max.
16.000 MHz - 30.000 MHz	Fund.	40 max.
26.000 MHz - 35.999 MHz	3 rd	100 max.
36.000 MHz - 100.000 MHz	3 rd	50 max.

Drawing

Package	TB39
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Technical drawing of the TB39 crystal package. The drawing shows a cylindrical component with two mounting tabs on one end. Dimensions are provided in millimeters: total length is 10.0 ± 0.5, diameter is 9.0 max, thickness is 0.32 ± 0.07, and the mounting hole diameter is 1.1 ± 0.20 (with a note that 0.8 is also available). A top-down view shows two mounting holes.