

# 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
---------	------