50U & 50T CRYSTAL

Specifications

Parameters	Standard	Options
Frequency range	1,800 MHz - 250,000 MHz	lower frequencies on demand 50T > 4,0 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 Cl	4 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 2000 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 + Code + Week +Year	

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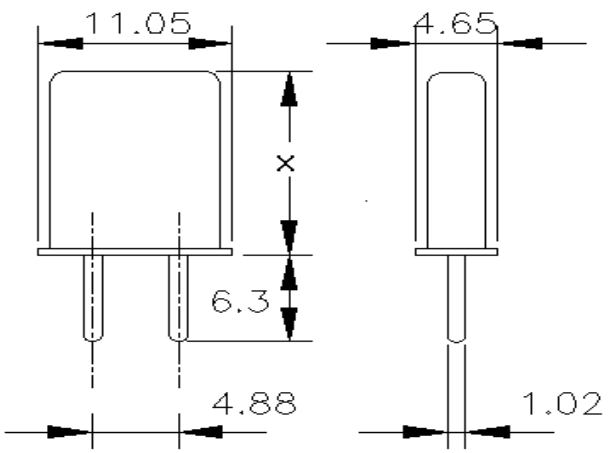
ESR table

Frequency range	Mode	ESR (ohms)
1,800 MHz - 1,999 MHz	Fund.	650 max
2,000 MHz - 2,449 MHz	Fund.	550 max.
2,450 MHz - 2,999 MHz	Fund.	350 max.
3,000 MHz - 3,499 MHz	Fund.	200 max.
3,500 MHz - 3,699 MHz	Fund.	150 max.
3,700 MHz - 3,999 MHz	Fund.	120 max.
4,000 MHz - 4,999 MHz	Fund.	100 max.
5,000 MHz - 5,999 MHz	Fund.	60 max.
6,000 MHz - 6,999 MHz	Fund.	50 max.
7,000 MHz - 7,999 MHz	Fund.	40 max.
8,000 MHz - 9,999 MHz	Fund.	35 max.
10,000 MHz - 11,999 MHz	Fund.	30 max.
12,000 MHz - 17,999 MHz	Fund.	25 max.
18,000 MHz - 40,000 MHz	Fund.	20 max.
18,000 MHz - 24,999 MHz	3 rd	60 max.
25,000 MHz - 39,999 MHz	3 rd	50 max.
40,000 MHz - 89,999 MHz	3 rd	40 max.
90,000 MHz - 150,000 MHz	3 rd	80 max.
50,000 MHz - 59,999 MHz	5 th	90 max.
60,000 MHz - 150,000 MHz	5 th	100 max.
80,000 MHz - 210,000 MHz	7 th	150 max.
100,000 MHz - 250,000 MHz	9 th	200 max.

Drawing

Package	HC50U 2 leads HC50T 2 leads	



X
HC50U : 13.5 mm

X
HC50T : 11.4 mm