

45U/UM1 - 52U CRYSTAL



Specifications		
Parameters	Standard	Options
Frequency range	8,000 MHz - 250,000 MHz	Fundamental up to 160,000 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	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 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 + Code + Week + Year	

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ESR table		
Frequency range	Mode	ESR (ohms)
8,000 MHz - 15,999 MHz	Fund.	50 max.
16,000 MHz - 39,999 MHz	Fund.	40 max.
40,000 MHz - 79,999 MHz	High frequency fundamental	25 max.
80,000 MHz - 160,000 MHz	High frequency fundamental	30 max.

20,000 MHz - 29,999 MHz	3 rd	80 max.
30,000 MHz - 100,000 MHz	3 rd	70 max.
50,000 MHz - 59,999 MHz	5 th	120 max.
60,000 MHz - 89,999 MHz	5 th	100 max.
90,000 MHz - 160,000 MHz	5 th	90 max.
80,000 MHz - 179,999 MHz	7 th	160 max.
180,000 MHz - 250,000 MHz	7 th	190 max.

Drawing

Package	HC45U 2 leads	HC45U 3 leads
	UM1 2 leads	UM1 3 leads
	HC52U 2 leads	HC52U 3 leads

