

HC-49/S (49S)

■ specifications

项目Item	技术Specifications	备注Remarks
频率范围Freq. Range	3.000MHz to 30.000MHz	Fund. ;AT-Cut
	20.000MHz to 48.000MHz	Fund. ;BT-Cut
	30.000MHz to 110.000MHz	3 rd O. T. ;AT-Cut
调整频差Freq. Tol.	±20PPm(Standard) at 25°C±3°C	Others are offered
负载电容Load Capacitance	Fund. :10pF to∞ 5pf to∞	明确注释please specify
Series Resistance	As ESR table	
温度频差Temp Tol	±30PPm	公差Tight Tolerance Available
工作温度Operaing Temp	-20°C to 70°C	可依实际而定Others are offered
储存温度Storage Temp	-55°C to 125°C	
最大值Max, drive level	1000 μ W	
建议使用Rec, drive level	10 μ W to 100 μ W	
静电容 Shunt Capacitance	7pF Max	
绝缘电阻 Insulation Resistance	500mΩ Min	Minimum at 100Vdc
老化率Aging	±2PPm/Year Max	Maximum

■ ESR (Series Resistance)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
3.0~3.999	Fund.	120	10.0~12.999	Fund.	40
4.0~4.999	Fund.	90	13.0~19.999	Fund.	35
5.0~5.999	Fund.	90	20.0~30.0	Fund.	25
6.0~6.999	Fund.	65	20.0~48.0(BT)	Fund.	25
7.0~7.999	Fund.	55	29.999~49.999	3rd I. T.	100
8.0~8.999	Fund.	50	50.0~89.999	3rd I. T.	80
9.0~9.999	Fund.	45	90.0~110.0	3rd I. T.	120

■ Stability vs. Temperature

★Standard		1	2	3	5	6	7	Remarks
☆Please specify		±10ppm	±20ppm	±30ppm	±50ppm	±100ppm	±150ppm	
B	-10°C to +60°C	☆	☆	☆				
C	-20°C to +70°C	☆	★	☆	☆	☆	☆	Standard
D	-40°C to +85°C	☆	☆	☆	★	☆	☆	
E	-45°C to +125°C			☆	☆	★	☆	

■ Ordering Information

Q	R	Type	Pin	XX.XXXX	M	Mode	CLpF	Freq, Toleran ce at 25°C	Operating Temp.	Stability Vs. Temp.	Option
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Q:Quartz 49s Blank:2 Center frequency M: F:Fund. ;AT SEE ±10ppmto See Table See Table F:LeadFree
R:Resonator 49ss 3.0 to 110.0MHz MHz O:3rdO. T. ;AT Table ±150ppm T:T&R
Blank:Bulk

Example: QR49S16.0000MFK2C2FT

(Crystal, HC-49/S, 2pins, 16.00000MHz, Fund AT, 20pF, ±20ppm, -20 to 70deg, ±20ppm, Lead free, T&R

■ Dimensions

