



MHz Quartz Crystals

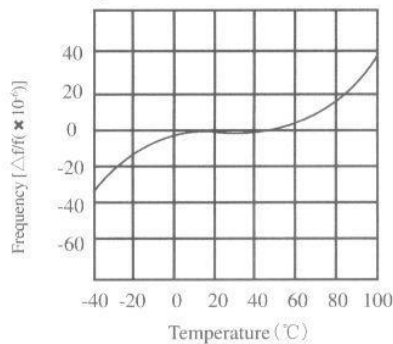
---Type: JU3



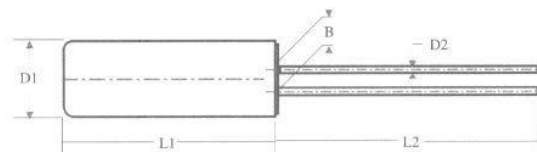
SPECIFICATIONS:

Item	Model	Specifications	Condition
Frequency Range	f_0	3.579MHz~27.000MHz	
Storage Temperature	T_{STG}	-30°C~+80°C	
Operating Temp. Range	T_{OPR}	-10°C~+60°C (Standard)	
Drive Level	DL	10 μ W~50 μ W	
Frequency Tolerance	$\Delta f/f$	± 50 ppm (Standard)	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$
Freq. Stability Over Temp.	$\Delta f/f$	± 50 ppm (Standard)	-10°C~+60°C
Load Capacitance	C_L	16.0 pF (typical)	
Equivalent Series Resistance	R_1	3.579MHz~4.499MHz: 120 Ω Max	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$
		4.500MHz~4.999MHz: 110 Ω Max	
		5.000MHz~6.999MHz: 100 Ω Max	
		7.000MHz~9.999MHz: 80 Ω Max	
		10.000MHz~11.999MHz: 70 Ω Max	
		12.000MHz~13.999MHz: 60 Ω Max	
		14.000MHz~15.999MHz: 40 Ω Max	
16.000MHz~27.000MHz: 20 Ω Max			
Shunt Capacitance	C_0	5.0pF Max	
Insulation Resistance	IR	500M Ω Min	DC=100V
Aging @ 25°C	f_a	± 5 ppm/year Max	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$, First year

■ AT-cut crystal units



■ Dimensions: (unit=mm)



TYPE	L1	L2	D1	D2	B
308	8.3	10.0	ϕ 3.1	ϕ 0.30	0.8
309	9.3	10.0	ϕ 3.1	ϕ 0.30	1.1
310	10.3	10.0	ϕ 3.1	ϕ 0.30	1.1

ORDER OPTIONS:

Type	Freq. (MHz)	Freq. Tolerance (ppm)	Freq. Stability Over Temp. (ppm)	Operating Temperature Range (°C)	Dimension (mm)
JU3	3.579~27.000	± 15	± 30 ± 50	A1=-10~+60°C A2=-20~+70°C	308 = 8.3×3.1 309 = 9.3×3.1 310 = 10.3×3.1
		± 20			
		± 30			
		± 50			

i.e. : JU3-3.579-50/50-A1-310