



Plastic Surface Mount Crystals

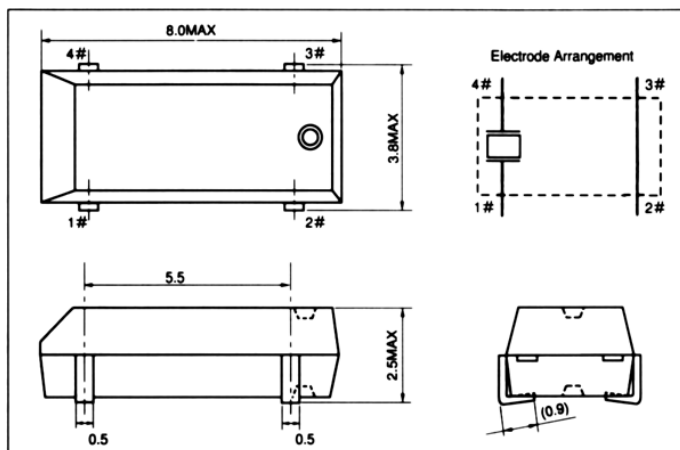
---Type: SM-JU1



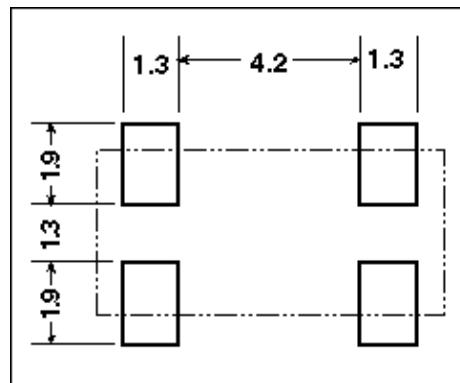
Specifications:

Item	Model	Specifications	Condition
Frequency Range	f_0	30.000KHz~200.000KHz	
Storage Temperature	T_{STG}	-55℃~+125℃	
Operating Temp. Range	T_{OPR}	-10℃~+60℃ (Standard)	
Drive Level	DL	1.0 μ W Max	
Frequency Tolerance	$\Delta f/f$	± 50 ppm (Standard)	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$ $DL\leq 1.0 \mu\text{W}$
Turnover Temperature	T_m	25℃ $\pm 3^\circ\text{C}$	
Temperature Coefficient	β	-0.04ppm/℃ ² Max	
Load Capacitance	C_L	12.5 pF	
Equivalent Series Resistance	R_1	32KHz~39KHz: 50K Ω Max	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$ $DL\leq 1.0 \mu\text{W}$
		40KHz~59KHz: 40K Ω Max	
		60KHz~69KHz: 35K Ω Max	
		70KHz~99KHz: 35K Ω Max	
		100KHz~200KHz: 30K Ω Max	
Motional Capacitance	C_1	4.0 fF Max	
Shunt Capacitance	C_0	2.0pF	
Insulation Resistance	IR	500M Ω Min	DC=100V
Aging @ 25℃	f_a	± 5 ppm/year Max	$T_a=25^\circ\text{C}\pm 3^\circ\text{C}$, First year

Dimention(mm):



Recommended soldering partern(mm):



Order Options:

Type	Freq. (KHz)	Load Capacitance	Freq. Tolerance (ppm)	Operating Temperature Range (℃)
SM-JU1	30 ~ 200	12.5(standard) C plus Value needed	± 20 ± 30 ± 50	A0=0~+50
				A1=-10~+60
				A2=-20~+70
				A3=-30~75
				A4=-40℃~+85℃

I.e.: SM-JU1-32.768C12.5-20-A1