



SPECIFICATION REQUIREMENT FOR CRYSTAL

■ ELECTRICAL CHARACTERISTIC

Parameter	Symb	Value		Condition
Frequency Range	F_0	32.768Khz		
Frequency Tolerance	$\Delta f/f_0$	$\pm 20\text{PPM}$		REF TO 25°C
Temperature Coefficient	$\Delta f/f_0$	$-0.034 \pm 0.006 \text{ ppm}/(^{\circ}\text{C})^2$		
Turnover temperature	T_m	$25 \pm 5^{\circ}\text{C}$		
Operating Temperature Range	T_{OPR}	-10°C to 60°C		
Storage Temperature Range	T_{STG}	-20°C to 70°C		
Quality factor		60,000TYP		
Series resistance	R_1	DT-38	30 K Ω	REF TO 25°C
		DT-26	35 K Ω	REF TO 25°C
Shunt Capacitance	C_0	1.8PF TYP		
Motional Capacitance	C_1	0.0030TYP		
Load Capacitance	C_L	12.5PF		
Insulator Resistance	IR	500 M Ω		DC100V $\pm 15\text{V}$
Drive Level	DL	1 mW		
Capacitance ratio	r	450TYP		
Aging	$\Delta f/f_0$	$\pm 5\text{PPM}$		at $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

■ DIMENSIONS (mm)

