

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
		DT-26	35 K Ω
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 μW	
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)
