

# LOW FREQUENCY TUNING FORK RESONATORS

## THLF-155 / THLF-26 / THLF-38



### FEATURES

- Small Sizes
- High Performance / Cost Ratio
- Wide Frequency Range



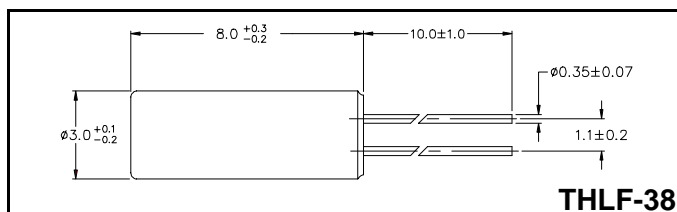
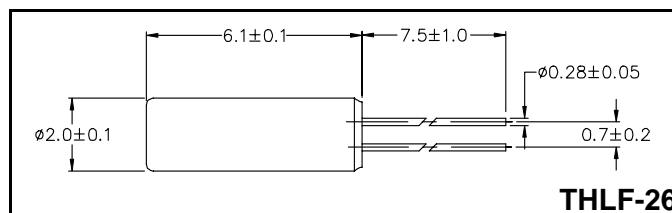
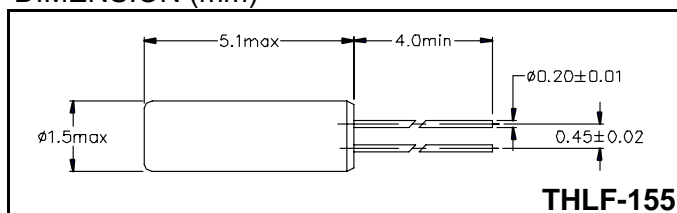
Item		Specifications		
Nominal Frequency Range	Series	THLF-155	THLF-26	THLF-38
Nominal Frequency	$f_0$	32.768KHz (Standard frequency)		
Nominal Frequency Range	$f_0$	30KHz ~ 200KHz		
Frequency Tolerance, $T_a=25^{\circ}\text{C} \pm 3^{\circ}\text{C}$	$\Delta f/f$	$\pm 20\text{ppm}$		
Load Capacitance	$C_L$	12.5pF		
Temperature Coefficient	$\Delta f/f$	$-0.034 \pm 0.006\text{ppm}/^{\circ}\text{C}^2$		
Operating Temperature Range	$T_{\text{OPR}}$	$-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$		
Storage Temperature Range	$T_{\text{STG}}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$		
Drive Level	DL	0.1mW (0.5mW Max.)		
Series Resistance (ESR)	$R_1$	65K $\Omega$ Max.	50K $\Omega$ Max.	
Insulation Resistance	IR	500M $\Omega$ Min.		
Aging	$\Delta f_A$	$\pm 5\text{ppm}/\text{Year Max.}$		

Please consult our sales representatives for other specifications.

### SERIES RESISTANCE (ESR)

Frequency Range	$30 < f_0 < 40$	$40 < f_0 < 60$	$60 < f_0 < 70$	$70 < f_0 < 120$	$120 < f_0 < 200$
ESR	40 $\Omega$ Max.	30 $\Omega$ Max.	25 $\Omega$ Max.	22 $\Omega$ Max.	20 $\Omega$ Max.

### DIMENSION (mm)



All specifications are subject to change without notice.