

AT-CUT CRYSTAL RESONATORS

THHF-49U



FEATURES

- AT-cut crystal performance
- Wide frequency range
- Standard and moderate precision available

Request for samples / quotation

Part number description

Where to buy



Item		Specifications
Nominal Frequency Range	f_0	1.8432MHz ~ 40.0MHz (Fundamental) 40.0MHz ~ 125.0MHz (3rd Overtone)
Frequency Tolerance, $T_a=25^\circ\text{C} \pm 3^\circ\text{C}$	$\Delta f/f$	$\pm 10\text{ppm}$, $\pm 30\text{ppm}$
Load Capacitance	C_L	18pF or customer specify
Frequency Tolerance over Operating Temperature Range	$\Delta f/f$	$\pm 10\text{ppm}$, $\pm 30\text{ppm}$
Operating Temperature Range	T_{OPR}	$-20^\circ\text{C} \sim +70^\circ\text{C}$, $-40^\circ\text{C} \sim +85^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55°C to 125°C
Drive Level	DL	0.1mW (1mW Max.)
Shunt Capacitance	C_0	7pF Max.
Insulation Resistance	IR	500M Ω Min.
Aging	Δf_A	$\pm 5\text{ppm/Year}$ Max.

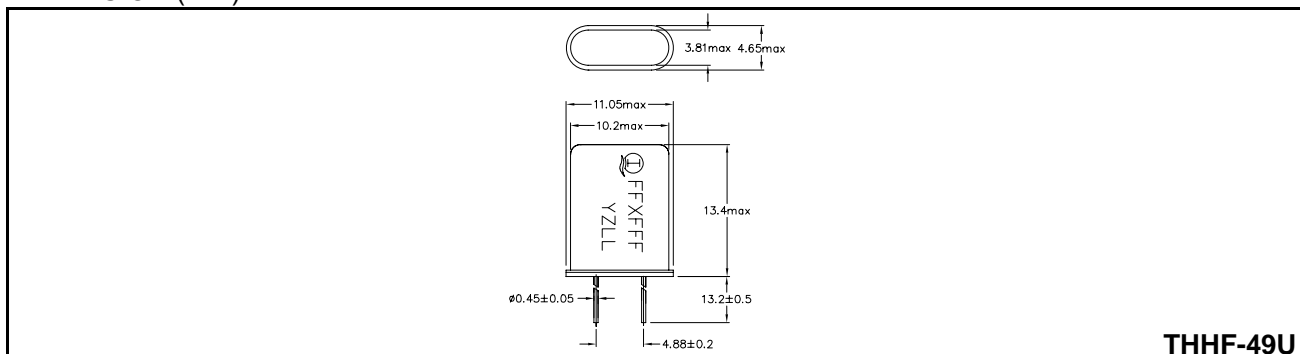
SERIES RESISTANCE (ESR)

Frequency Range	$1.8432 < f_0 \leq 2.3$	$2.3 < f_0 \leq 3.0$	$3.0 < f_0 \leq 3.5$	$3.5 < f_0 \leq 4.5$	$4.5 < f_0 \leq 7.0$	$7.0 < f_0 \leq 15.0$
ESR	450 Ω Max.	300 Ω Max.	150 Ω Max.	90 Ω Max.	70 Ω Max.	40 Ω Max.

Frequency Range	$15.0 < f_0 \leq 40.0$	$40.0 < f_0 \leq 75.0$ (3.O.T)	$75.0 < f_0 \leq 100.0$ (3.O.T)	$100.0 < f_0 \leq 125.0$ (3.O.T)
ESR	30 Ω Max.	40 Ω Max.	35 Ω Max.	30 Ω Max.

Please consult our sales representatives for other specifications.

DIMENSION (mm)



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All specifications are subject to change without notice.



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