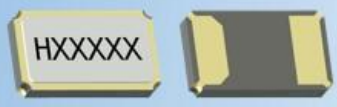
Hosonic

SMD kHz Crystals

ETDG Series 2.0×1.2×0.60mm



Features

- Miniature SMD package
- Use Tuning fork quartz as the resonator for low drive power
- Tight tolerance

Application

- Time management

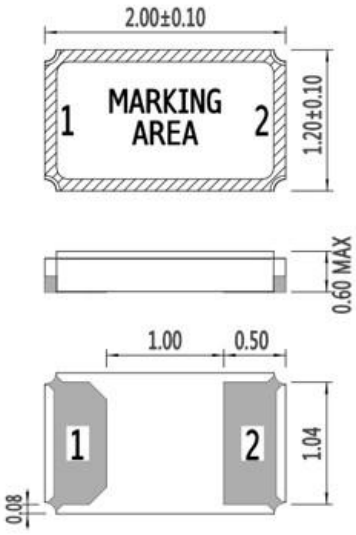
Electrical Specifications

Item	Symbol	ETDG
Frequency Range	f_{nom}	32.768kHz
Load Capacitance	CL	7pF, 12.5pF or specify
Frequency Tolerance (At 25℃)	F_{tol}	±20 ppm, or specify
Equivalent Series Resistance	ESR	90kΩ max.(70kΩ max. option)
Temperature Coefficient	K	-0.04ppm*(△℃)² min.
Turnover Temperature	T_0	25±5℃
Operating Temperature Range	T_{opr}	-40 ~ +125℃, or specify
Storage Temperature Range	T_{stg}	-40 ~ +85℃
Shunt Capacitance	C_0	2pF max.
Insulator Resistance (at DC 100V)	IR	500MΩ min.
Drive Level	DL	0.5μW max.
Aging (At 25℃)	Fa	±3ppm /year max.

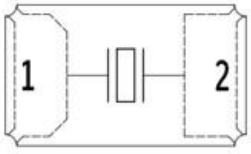
**Please contact us for inquiries regarding other Specifications.

Mechanical Dimensions

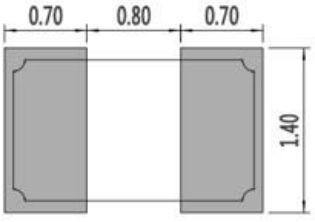
Unit: (mm)



Pin Connection
(Top View)



Recommended PAD Layout



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