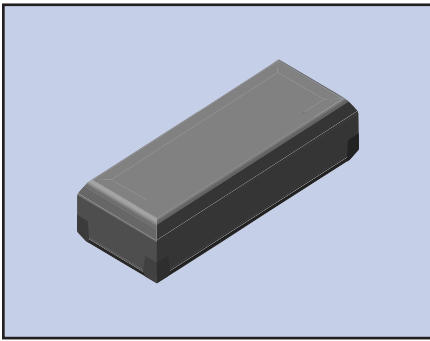


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The ultra-miniature ECX-31 is a very compact SMD Tuning Fork Crystal. The 3.2 x 1.2 x 1 mm package is ideal for applications where real estate is at a premium.

FEATURES

- Low profile
- long term stability
- 1mm height max.
- Tape and Reel (3,000 pcs)

PART NUMBERING GUIDE "EXAMPLE"

MANUFACTURER	FREQUENCY (32.768 KHz)	LOAD CAPACITANCE	PACKAGE TYPE
ECS	- .327	- 12.5	- 32

Part Number: ECS-.327-12.5-32

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY	F _o		32.768		KHz
FREQUENCY TOLERANCE	Δf/f _o			±20	PPM
LOAD CAPACITANCE			12.5		pF
DRIVE LEVEL	D _L			1.0	μW
EQUIVALENT SERIES RESISTANCE	R _L			50K	Ω
TURNOVER TEMPERATURE		+20	+25	+30	°C
TEMPERATURE COEFFICIENT	β		-0.035	-0.043	ppm/°C ²
SHUNT CAPACITANCE	C ₀		1.7		pF
OPERATING TEMPERATURE RANGE	T _{OPR}	-40		+85	°C
STORAGE TEMPERATURE RANGE	T _{STG}	-55		+125	°C
INSULATION RESISTANCE	@ 100v DC ±15v	500M			Ω

PACKAGE DIMENSIONS (mm)

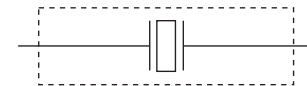
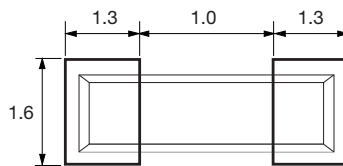
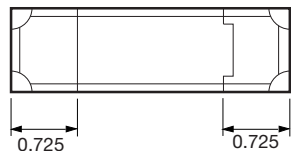
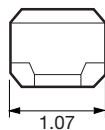
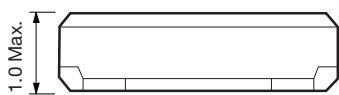
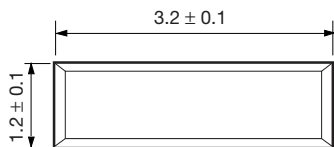


Figure 1) ECX-32 - Top, Side Bottom & End views

Figure 2) ECX-32 Land Pattern

Figure 3) ECX-32 Crystal Connection