

The sub miniature ECX-34G is a compact SMD tuning fork crystal with a case ground. The 3.2 x 1.5 x 0.9 mm ceramic package is ideal mobile devices, IoT and low noise applications.

# ECX-34G SMD CRYSTAL

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## ECX-34G SMD CRYSTAL

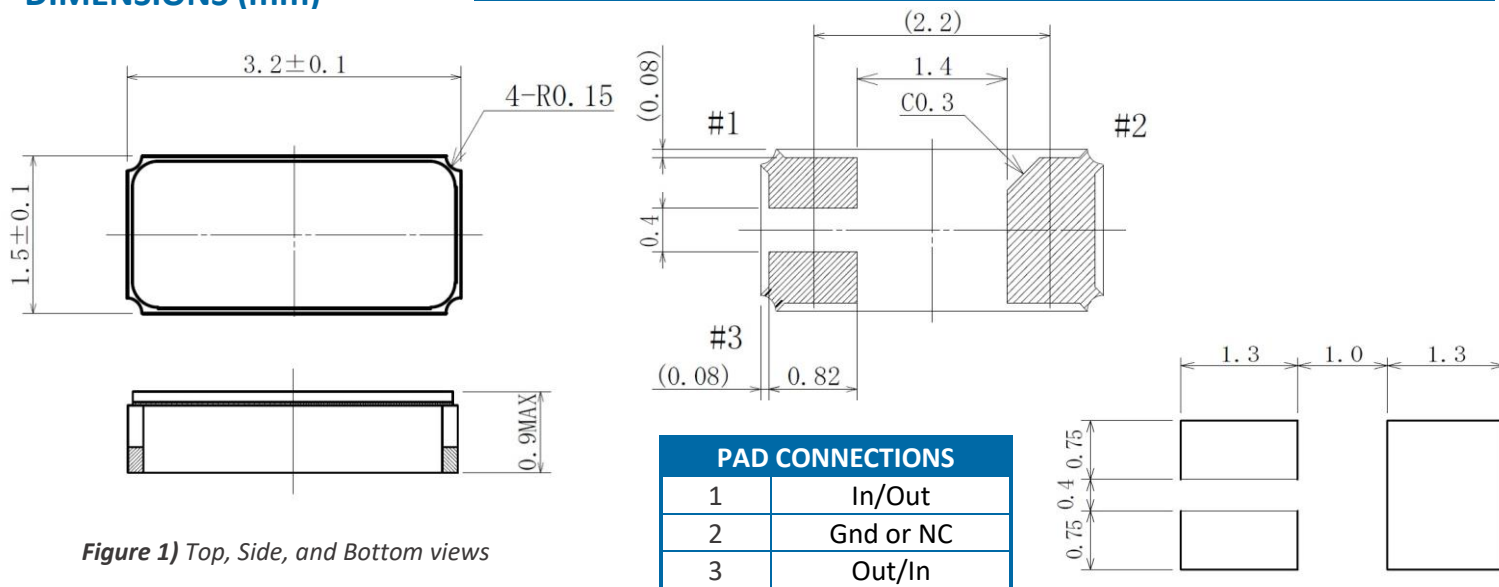


- Grounded Metal Cover
- 3.2 x 1.5 mm Footprint
- Low Power RTC Applications such as STM32 [AN2867](#)
- RoHS Compliant

## OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-34G			UNITS
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance	at +25°C			± 20	°C
Frequency Stability	-40 to +85°C	-0.028	-0.034	-0.040	ppm/°C <sup>2</sup>
Shunt Capacitance	Co		0.75		pF
Load Capacitance	Specify in P/N		12.5		pF
Drive Level				1	μW
Equivalent Series Resistance	R1			70K	Ω
Quality Factor	Q		30K		
Turnover Temperature		+20	+25	+30	°C
Operating Temperature		-40		+85	ppm
Storage Temperature		-55		+125	ppm
Aging (First Year)	@ +25°C ±3°C			±3	ppm

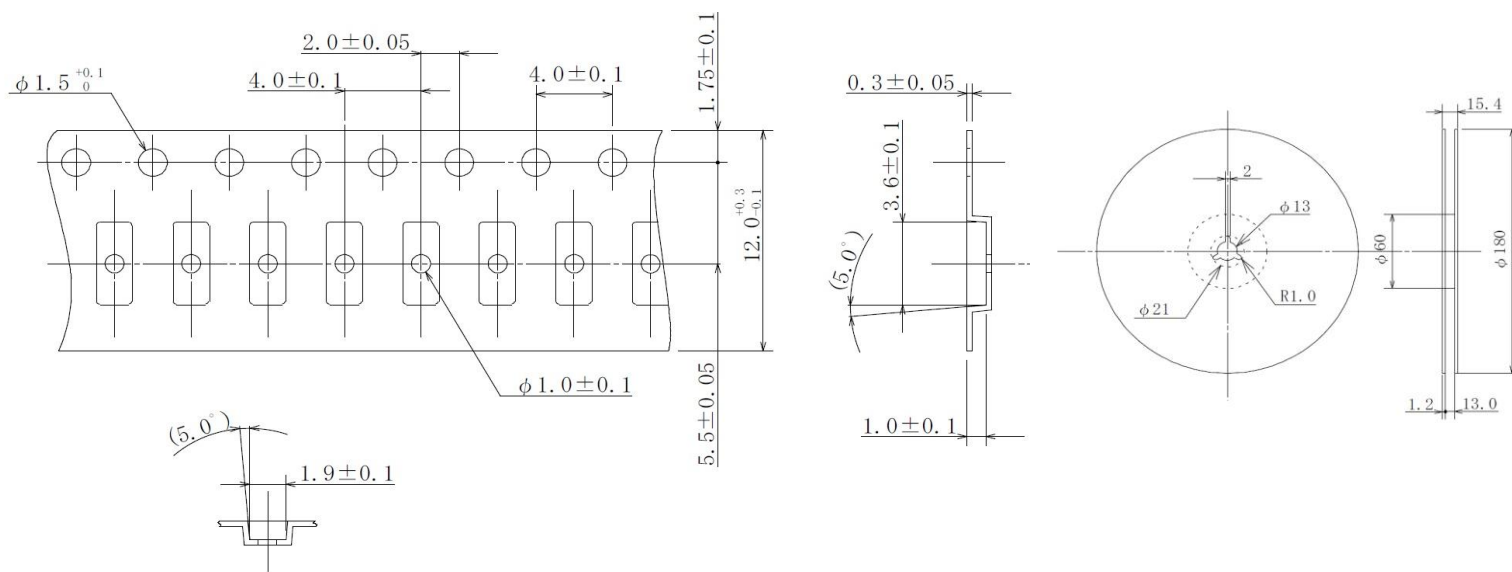
## DIMENSIONS (mm)



## PART NUMBERING GUIDE: Example ECS-.327-12.5-34G-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	PACKAGING
ECS	.327 = 32.768 KHz	34G = ECX-34G	Blank = ±20 ppm * C = ± 10 ppm	TR = Tape & Reel 3K/Reel
	12.5 = 12.5 pF 6 = 6 pF			

## POCKET TAPE & Reel DIMENSIONS



### SOLDER PROFILE

Peak solder Temp  $+260^\circ\text{C}$  Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

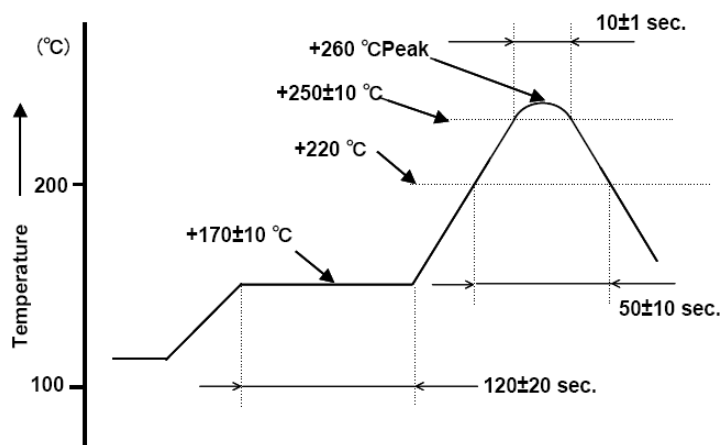


Figure 1) Suggested Reflow Profile

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ECS:

[ECS-.327-12.5-34G-TR](#) [ECS-.327-6-34G-TR](#)