

The ultra-miniature ECX-34S is a very compact SMD Tuning Fork Crystal with an **extended operating temperature of -40 ~ +125°C**. The 3.2 x 1.5 x 0.9 mm ceramic package is ideal for mobile devices, wireless devices, and industrial applications.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



PARAMETERS	CONDITIONS	ECX-34S			UNITS
		MIN	TYP	MAX	
Frequency	Fo		32.768		KHz
Frequency Tolerance	@ +25°C			± 20	ppm
Temperature Coefficient			-0.034	-0.040	ppm/°C²
Shunt Capacitance	Co		1.05		pF
Load Capacitance	Specify in P/N		12.5		pF
Drive Level	DL		0.1	1.0	μW
Equivalent Series Resistance	R1			70K	Ω
Insulation Resistance	@ 100V DC	500M			Ω
Turnover Temperature		+20	+25	+30	°C
Operating Temperature	Topr	-40		+125	°C
Storage Temperature	Tstg	-55		+125	°C
Aging (First Year)	@ +25°C ±3°C			±3	ppm

- 3.2 x 1.5 mm Footprint
- Low Power RTC Applications such as STM32 [AN2867](#)
- **-40 ~ +125°C Operating Temp**
- RoHS 2011/65/EU Compliant
- REACH Compliant

DIMENSIONS (mm)

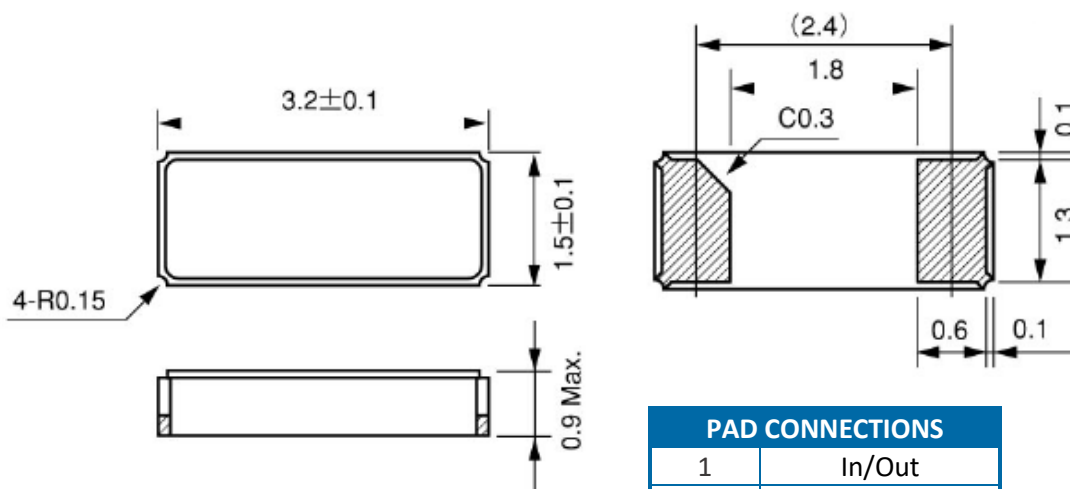


Figure 1) Top, Side, and Bottom views

PAD CONNECTIONS	
1	In/Out
2	Out/In

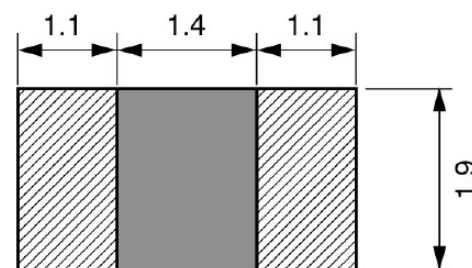
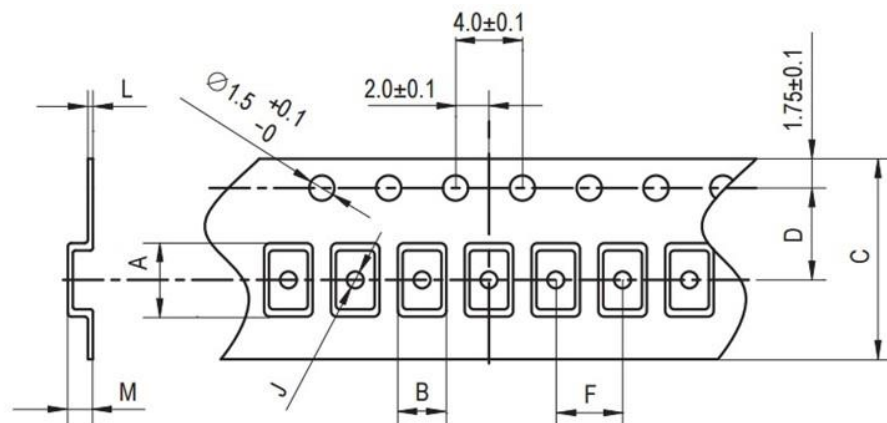


Figure 2) Suggested Land Pattern

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

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	PACKAGING
ECS	.327 = 32.768 KHz	12.5 = 12.5 pF 6 = 6 pF	-34S = ECX-34S
			TR = 3K/Reel TR9 = 9K/Reel

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M
3.4	1.7	12.0	5.5	4.0	1.0	0.3	1.2

SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

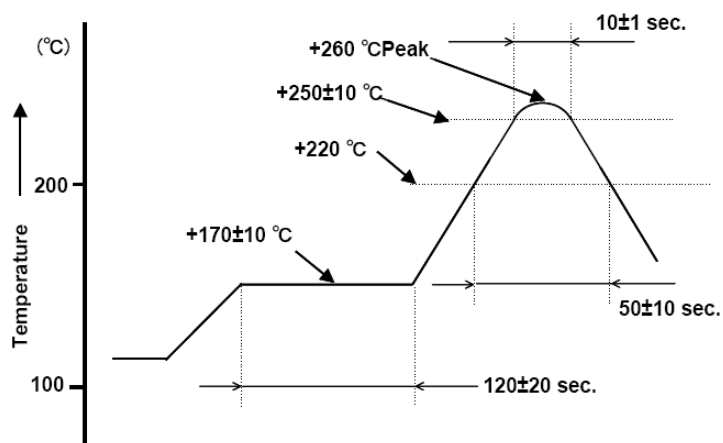


Figure 1) Suggested Reflow Profile