



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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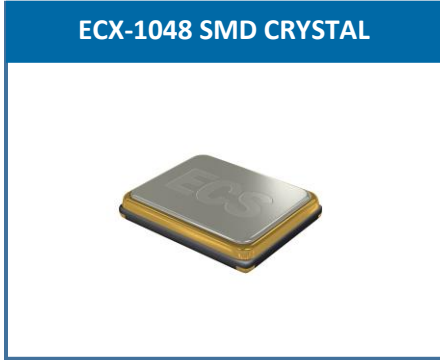
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The ultra-miniature ECX-1048 is our smallest compact Crystal. The 1.2 x 1.0 x 0.33 mm ceramic package is ideal for today's SMD manufacturing environment.

[Request a Sample](#)



- Low Profile
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- IOT/Wearable Applications

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1048			UNITS
		MIN	TYP	MAX	
Frequency		24.000		54.000	MHz
Frequency Tolerance	@ +25°C			± 10	ppm
Frequency Stability	-30 ~ +85°C (Y)			± 10	ppm
Equivalent Series Resistance (ESR)	24 ~ 31.999 MHz			150	Ω
	32 ~ 54.000 MHz			100	Ω
Shunt Capacitance	Co			2	pF
Load Capacitance	Specify in P/N		10		pF
Drive Level	DL		10	50	μW
Operating Temperature	T _{opr}	-40		+85	°C
Storage Temperature	T _{stg}	-40		+90	°C
Aging (First Year)	@ +25°C ±3°C			±2	ppm

DIMENSIONS (mm)

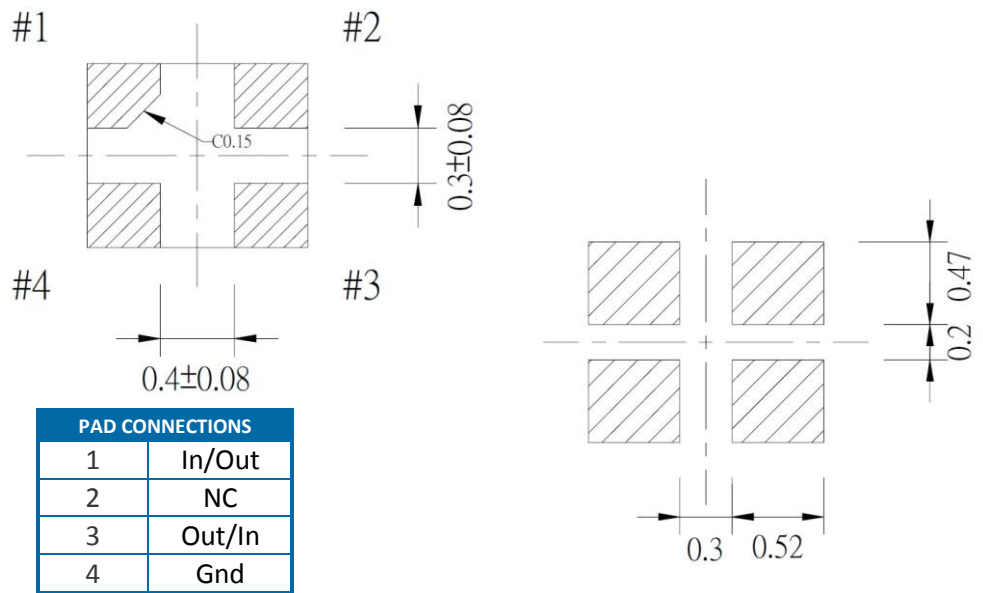
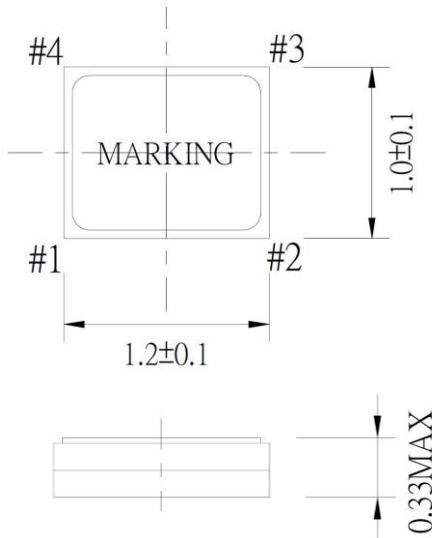


Figure 1) Top, Side, and Bottom views

Figure 2) Suggested Land Pattern

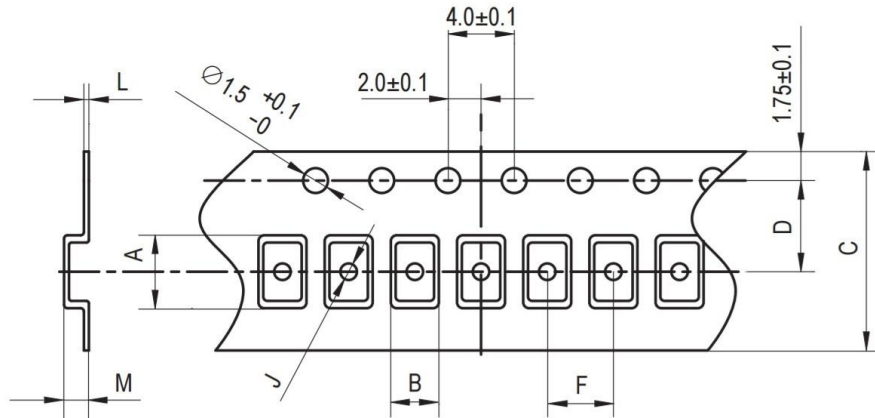
PART NUMBERING GUIDE: Example ECS-240-10-48-CKY-TR

ECS	FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIOND			PACKAGING
				Tolerance	Stability	Temp Range	
ECS	240 = 24.000 MHz See P/N Guide	8 = 8 pF 10 = 10 pF	-48 = ECX-1048	A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm W = ± 15 ppm K = ± 10 ppm	M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C	TR = Tape & Reel 1K/Reel

*Contact ECS for availability

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POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
1.42	1.17	8.0	3.5	4.0	0.5	0.2	0.65	180	1K/Reel

SOLDER PROFILE
Peak solder Temp +260°C Max 10 sec Max.
2 Cycles Max.
MSL 1, Lead Finish Au

STANDARD FREQUENCIES	
Abbreviation	Frequency (MHZ)
240	24.000
260	26.000
360	36.000
374	37.400
384	38.400
400	40.000
520	52.000

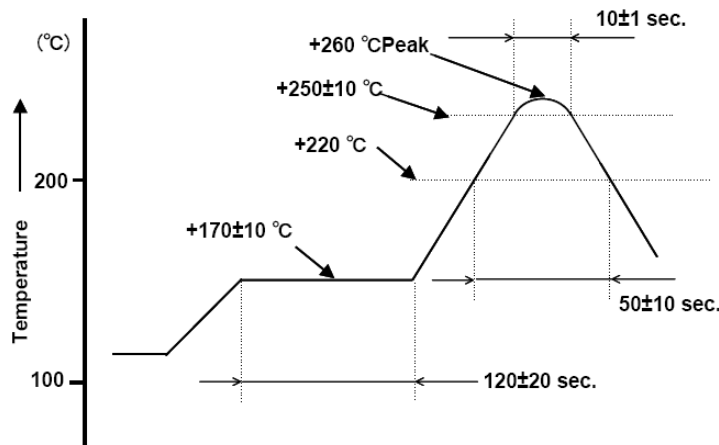


Figure 1) Suggested Reflow Profile