

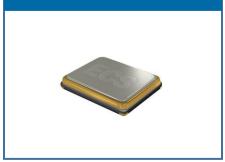
# ECX-1048 SMD CRYSTAL

Request a Sample



The ultra-miniature ECX-1048 is a our smallest compact Crystal. The  $1.2 \times 1.0 \times 0.33$  mm ceramic package is ideal for LoRa WAN, receivers, video, audio, and mobile applications.

#### **ECX-1048 SMD CRYSTAL**

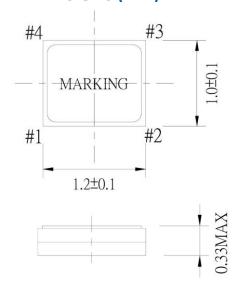


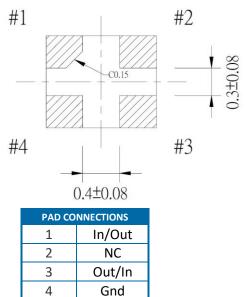
- Low Profile
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- IOT/Wearable Applications

### **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	CONDITIONS	ECX-1048		UNITS	
		MIN	ТҮР	MAX	
Frequency		32.000		54.000	MHz
Frequency Tolerance	@ +25°C			± 10	ppm
Frequency Stability	-30 ~ +85°C (Y)			± 10	ppm
Resistance (ESR)	32 ~ 54.000 MHz			100	Ω
Shunt Capacitance	Со			2	pF
Load Capacitance	Specify in P/N		10		pF
Drive Level	DL		10	50	μW
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-40		+90	°C
Aging (First Year)	@ +25°C ±3°C			±2	ppm

### **DIMENSIONS (mm)**





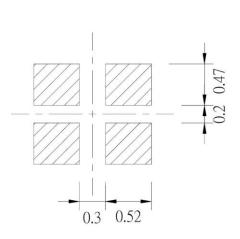


Figure 1) Top, Side, and Bottom views

Figure 2) Suggested Land Pattern

#### PART NUMBERING GUIDE: Example ECS-320-10-48-CKY-TR

ECS - FR	EQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	Tolerance	CUSTOM OPTIC Stability	ND F Temp Range	ACKAGING
ECS	320 = 32.000 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	Tape

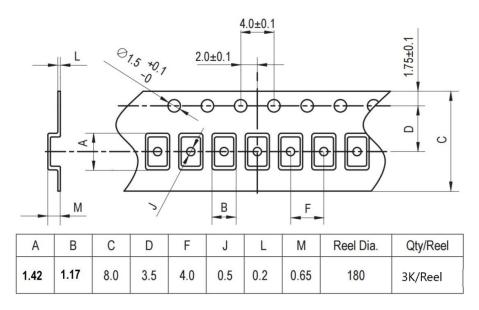
\*Contact ECS for availability

Rev.2017





## **POCKET TAPE DIMENSIONS (mm)**



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

STANDARD FREQUENCIES				
Abbreviation Frequency (MHZ				
320	32.000			
374	37.400			
384	38.400			
480	48.000			

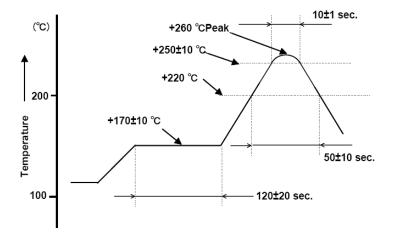


Figure 1) Suggested Reflow Profile

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