

ECX-1048B **SMD CRYSTAL**

Request a Sample

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

MIN

32.000

-40

-40

ECX-1048B

10

10

MAX

60.000

+ 10

± 20

100

80

3

100

+85

+105

±2

TYP

CONDITIONS

@ +25°C (C)

-40 ~ +85°C (TN)

32 ~ 47.9 MHz

48.0 ~ 60.0 MHz

Co

Specify in P/N

DL

Topr

Tstg @ +25°C ±3°C



UNITS

MHz

ppm

ppm

Ω

Ω

рF

pF

 μW

°C

°C

ppm

0.7

The ultra-miniature ECX-1048B is a our smallest compact Crystal. The 1.2 x 1.0 x 0.35 mm ceramic package is ideal for today's SMD manufacturing environment.

PARAMETERS

Frequency Tolerance

Frequency Stability

Equivalent Series

Resistance (ESR)

Shunt Capacitance

Load Capacitance

Operating Temperature

Storage Temperature

Aging (First Year)

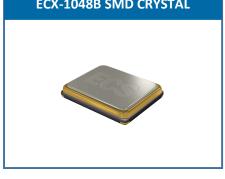
Drive Level

Frequency

ECX-1048B SMD CRYSTAL

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

DIMENSIONS (mm)



	1.2 ±	:0.1
	#4	#3
1.0 ±0.1		
	#1	#2

PAD CONNECTIONS		
1	In/Out	
2	Gnd or N/C	
3	Out/In	
4	Gnd or NC	

Figure 1) Top, Side, and Bottom views

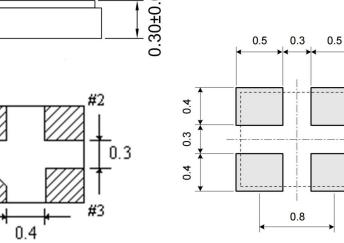


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-480-10-48B-CTN-TR

(Bottom View)

ECS - F	REQUENCY ABBREVIATION	LOAD	PACKAGE		CUSTOM OPTIC	OND	PACKAGING
		CAPACITANCE		Tolerance	* Stability	Temp Range	
ECS	480 = 48.000 MHz See P/N Guide	10 = 10 pF * Other CL's available	-48B = ECX-1048B	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°(Y = -30 ~ +85°C N = -40 ~ +85°C	Skylkeer

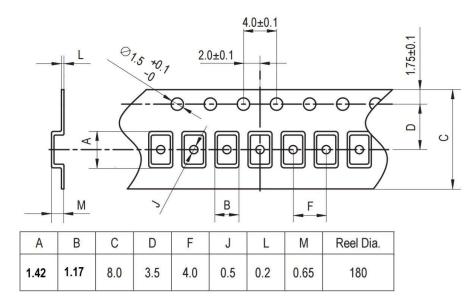
*Contact ECS for availability

Rev.2024





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	
480	48.000	
520	52.000	

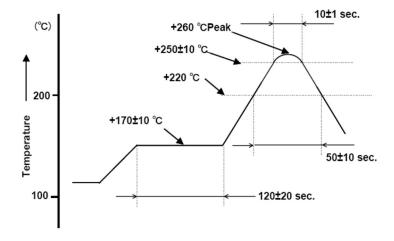


Figure 1) Suggested Reflow Profile

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ECS:

<u>ECS-320-10-48B-CKY-TR</u> <u>ECS-320-8-48B-CKY-TR</u> <u>ECS-480-10-48B-CKY-TR</u> <u>ECS-320-7-48B-JTM-TR5</u> <u>ECS-384-8-48B-CKM-TR5</u>