

ECX-1637B SMD CRYSTAL

Request a Sample



The sub miniature ECX-1637B is a very compact SMD Crystal. The $2.0\,x\,1.6\,x\,0.45$ mm ceramic package is ideal for wireless applications.

ECX-1637B SMD CRYSTAL

- Low 1st Year Aging ±1 ppm Max.
- 2.0 x 1.6 mm Footprint
- Extended Temp. Range Option
- RoHS Compliant

DIMENSIONS (mm)

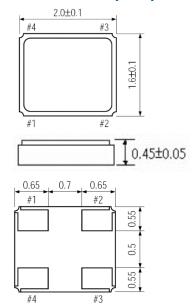
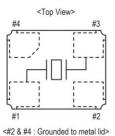


Figure 1) Top, Side, and Bottom

Crystal is symmetrical, pad 1 & 3 are interchangeable. Chamfer on the bottom pad has no electrical significance.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1637B		UNITS		
		MIN	TYP	MAX		
Frequency		16.000		96.000	MHz	
Mode of Oscillation	Fundamental					
Frequency Tolerance*	@ +25°C (C option)			± 10	ppm	
Frequency Stability*	-30 ~ +85°C (KY option)			± 10	ppm	
Shunt Capacitance	Со			3	рF	
Load Capacitance	Specify in P/N		8		рF	
Drive Level	DL			100	μW	
Operating Temperature*	Topr (Y option)	-30		+85	°C	
Storage Temperature	Tstg	-55		+125	°C	
Aging (First Year)	@ +25°C ±3°C			±1	ppm	



Pad C	onnections
1	In/Out
2	Gnd
3	Out/In

Gnd

ESR Ω Max.		
150		
70		
50		
40		
25		

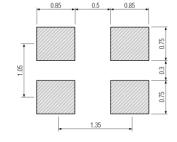


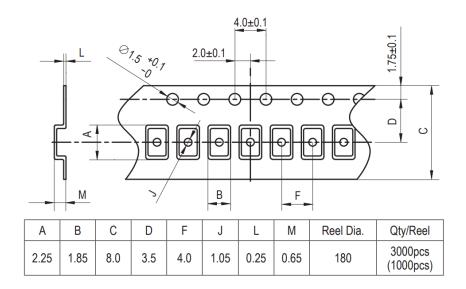
Figure 2) Suggested land

PART NUMBERING GUIDE: Example ECS-240-8-37B-CKY-TR

ECS - FF	REQUENCY ABBREVIATION	LOAD	PACKAGE		AVAILABLE OPT	IONS	PACKAGING
		CAPACITANCE		Tolerance Range	e Stability	Temp	
ECS	240 = 24.000 MHz See P/N Guide	8 = 8 pF 10 = 10 pF S=Series	-37B = ECX-1637B	Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm	Blank= Std D= ±100 ppm E = ± 50 ppm G = ± 30 ppm	Blank= Std L = -10 ~ +70°C M = -20 ~ +70°C Y = -30 ~ +85°C	Otv/Reel
	vailable options in P/N. CCS for availability over extende	ed temp range.		C = ± 10 ppm 7 = ± 7 ppm	H = ± 25 ppm T = ± 20 ppm † W = ±15 ppm † K = ± 10 ppm †	N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C U = -55 ~ +125°C	



POCKET TAPE DIMENSIONS (mm)



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

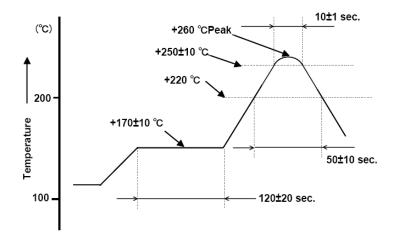


Figure 1) Suggested Reflow Profile

Mouser Electronics

Authorized Distributor

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

ECS:

ECS-240-12-37B-7KM-TR ECS-240-6-37B-7KM-TR ECS-320-12-37B-7KM-TR ECS-320-8-37B-7KM-TR ECS-320-8-37B-7KM-TR ECS-320-10-37B-7TN-TR ECS-320-10-37B-CTN-TR ECS-320-8-37B-CKY-TR ECS-320-8-37B-CKY-TR ECS-320-10-37B-CKY-TR ECS-320-8-37B-CKY-TR ECS-320-10-37B-CKY-TR ECS-320-6-37B-CKY-TR ECS-320-8-37B-CKY-TR ECS-320-8-37B-CKY-TR ECS-320-8-37B-CTN-TR ECS-800-8-37B-CTN-TR ECS-800-8-37B-CTN-TR ECS-800-8-37B-CTN-TR ECS-600-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-500-8-37B-CTN-TR ECS-320-8-37B-CWN-TR