

ECX-1637B2 **SMD CRYSTAL**

Request a Sample



The sub miniature ECX-1637B2 is a very compact SMD Crystal. The 2.0 x 1.6 x 0.45 mm ceramic package is ideal for wireless applications.

ECX-1637B2 SMD CRYSTAL



- Low 1st Year Aging ±2 ppm Max.
- 2.0 x 1.6 mm Footprint
- Extended Temp. Range Option
- RoHS Compliant

DIMENSIONS (mm)

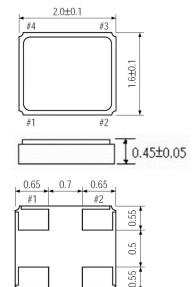
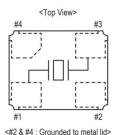


Figure 1) Top, Side, and Bottom

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

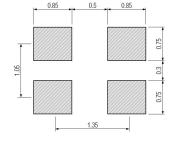
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1637B2			UNITS
		MIN	TYP	MAX	
Frequency		16.000		50.000	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	pF
Load Capacitance	Specify in P/N		8		pF
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			±2	ppm



Pad Connections				
1	In/Out			
2	Gnd			
3	Out/In			
4	Gnd			

Frequency (MHz)	ESR Ω Max.
16.000 ~ 19.999	150
20.000 ~ 23.999	70
24.000 ~ 39.999	50
40.000 ~ 50.000	40



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Figure 2) Suggested land

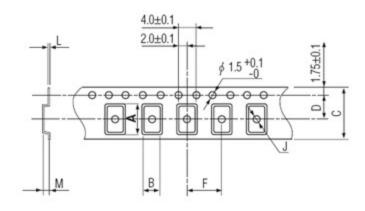
PART NUMBERING GUIDE: Example ECS-240-8-37B2-CKY-TR

 $K = \pm 10 ppm \dagger$

BLE OPTIONS PACKAGING	AVAILABLE OPT	E AVAILABLE		LOAD	EQUENCY ABBREVIATION	ECS - FREQUENCY ABBREVIATIO	
ility Temp Range	Stability	Tolerance		CAPACITANCE			
ppm	Blank= Std D= ±100 ppm E = ±50 ppm G = ±30 ppm H = ±25 ppm T = ±20 ppm †	Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm 7 = ± 7 ppm	-37B2 = ECX-1637B2	8 = 8 pF 10 = 10 pF S=Series	240 = 24.000 MHz See P/N Guide	ECS Specify ava	
pm † P = -40 ~ +105°C				d temp range.	ailable options in P/N. CS for availability over extende		



POCKET TAPE DIMENSIONS (mm)



Α	В	С	D	F	J	L	М	Reel Dia.	Qty/Reel
2.25	1.85	8.0	3.5	4.0	1.0	0.25	0.65	180	3000

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

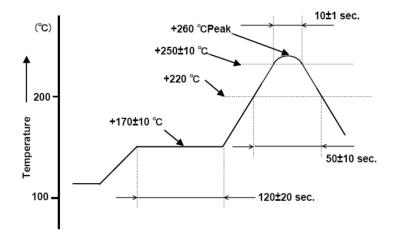


Figure 1) Suggested Reflow Profile