

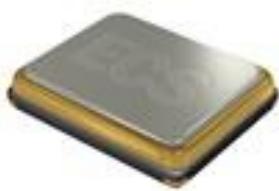
The ECX-53B is a miniature SMD Crystal with a 3.2 x 5 mm footprint. This package is ideal for todays compact wireless applications where board space is critical.

ECX-53B SMD CRYSTAL

[Request a Sample](#)



ECX-53B SMD CRYSTAL



- Compact and low profile
- Industry Standard Footprint
- Extended Temp. Range Option
- RoHS Compliant

DIMENSIONS (mm)

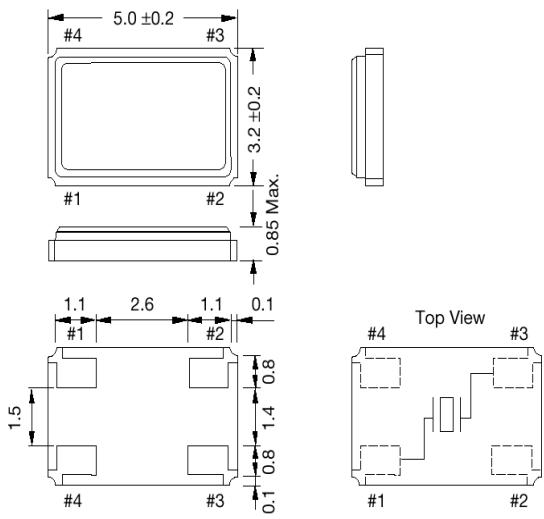


Figure 1) Top, Side, and Bottom

Crystal is symmetrical, pad 1 & 3 are interchangeable.

Chamfer on the bottom pad has no electrical significance.

Frequency (MHz)	ESR Ω Max.
8.000 ~ 9.999	100
10.000 ~ 15.999	80
16.000 ~ 19.999	50
20.000 ~ 23.999	40
24.000 ~ 50.000	30

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

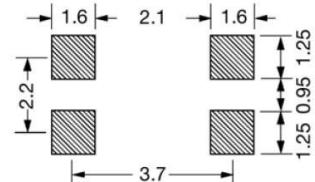


Figure 2) Suggested land

PART NUMBERING GUIDE: Example ECS-200-20-30B-TR

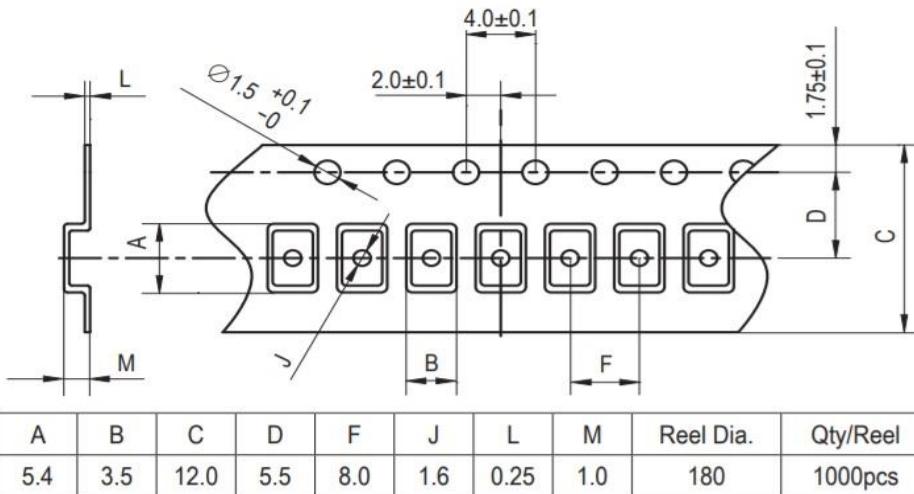
ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS	PACKAGING			
ECS	200 = 20.000 MHz See P/N Guide	20 = 20 pF S = Series	30B = ECX-53B	Tolerance Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	Stability Blank= Std D= ±100 ppm E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm † W = ±15 ppm † K = ± 10 ppm †	Temp Range Blank= Std L = -10 ~ +70°C M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C U = -55 ~ +125°C	TR = Tape & Reel 1K/Reel

* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

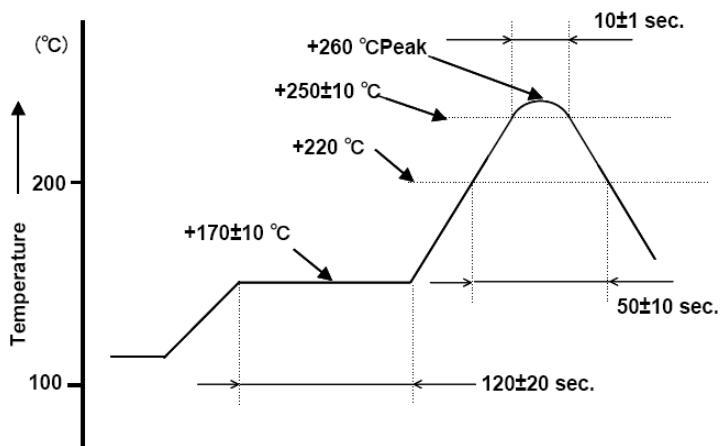
Rev.2017

POCKET TAPE DIMENSIONS (mm)



SOLDER PROFILE

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



DEVELOPED FREQUENCIES

Abbreviation	Frequency (MHZ)
080	8.000
100	10.000
120	12.000
122.8	12.288
160	16.000
200	20.000
240	24.000
245.7	24.576
250	25.000
270	27.000
300	30.000
360	36.000
500	50.000

Figure 1) Suggested Reflow Profile