

The ECX-2236Q is a miniature SMD Crystal with a 2.5 x 2.0 mm footprint. AEC-Q200 Qualified

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECX-2236Q SMD CRYSTAL



- Low Profile
- 2.5 x 2.0 mm Footprint
- RoHS Compliant
- AEC-Q200 Qualified

DIMENSIONS (mm)

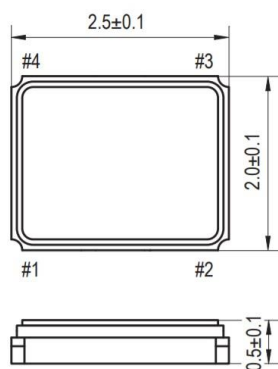
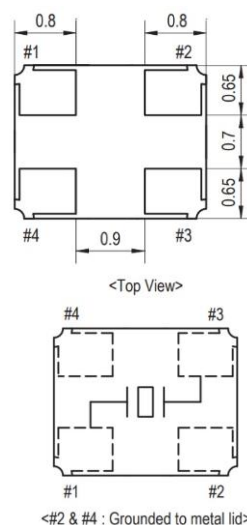


Figure 1) Top, Side, and Bottom

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



Frequency (MHz)	ESR Ω Max.
12.000 ~ 15.999	150
16.000 ~ 19.999	80
20.000 ~ 29.999	60
30.000 ~ 34.999	50
35.000 ~ 40.000	40

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

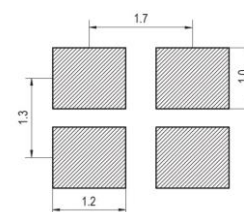


Figure 2) Suggested land pattern

PART NUMBERING GUIDE: Example ECS-240-8-36Q-ES-TR

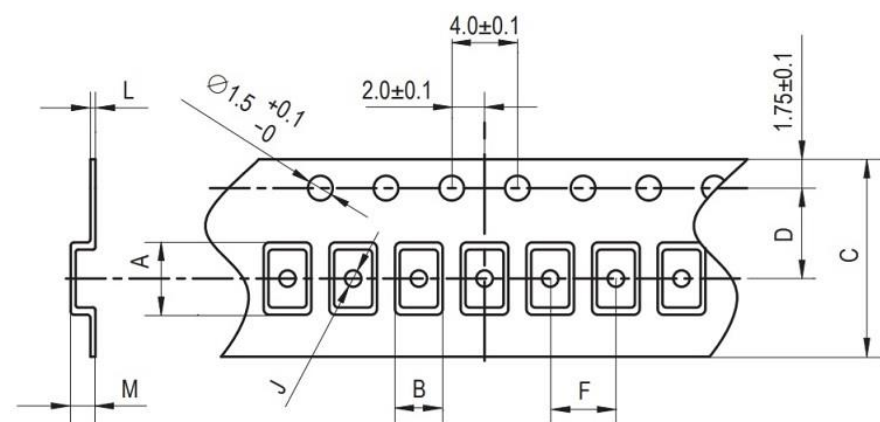
ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	Tolerance Range	AVAILABLE OPTIONS		PACKAGING
					Stability	Temp	
ECS	240 = 24.000 MHz See P/N Guide	8 = 8 pF S = Series	36Q = ECX-2236Q	Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	Blank= Std D= ±100 ppm E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm † W = ±15 ppm † K = ±10 ppm †	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 = T & Re 3K/Re

* Specify available options in P/N.

$\dagger$ Contact ECS for availability over extended temp range.

Rev.2018

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
2.8	2.3	8.0	3.5	4.0	1.05	0.25	0.75	180	3000

SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

DEVELOPED FREQUENCIES

Abbreviation	Frequency (MHZ)
120	12.000
160	16.000
200	20.000
240	24.000
245.7	24.5760
250	25.000
260	26.000
270	27.000
300	30.000
320	32.000
400	40.000
480	48.000

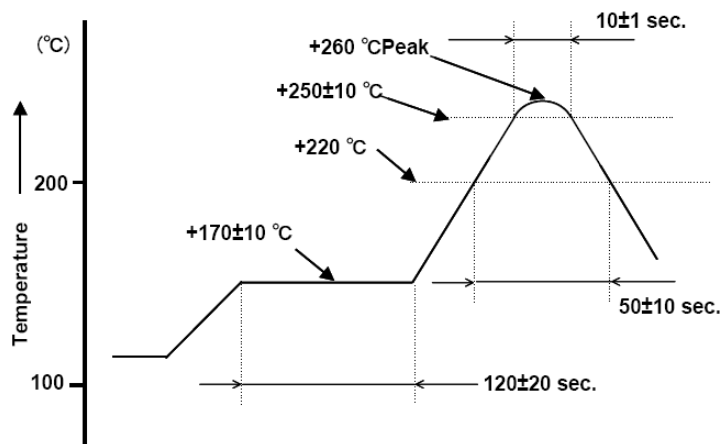


Figure 1) Suggested Reflow Profile