

ECX-1637Q SMD CRYSTAL

Request a Sample



The ECX-1637Q is a miniature SMD Crystal with a 2.0 x 1.6 mm footprint. AEC-Q200 Qualified

ECX-1637Q SMD CRYSTAL

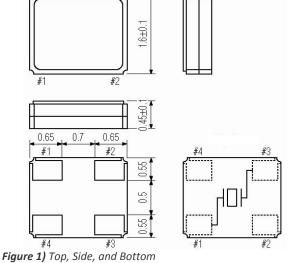


- Low Profile
- 2.0 x 1.6 mm Footprint

 2.0 ± 0.1

- RoHS Compliant
- AEC-Q200 Qualified

DIMENSIONS (mm)



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

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	E	UNITS		
		MIN	TYP	MAX	
Frequency		16.000		48.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@ +25°C			± 30	ppm
Frequency Stability*	-40 ~ +125°C (ES Option)			± 50	ppm
Shunt Capacitance	Co			5	pF
Load Capacitance	Specify in P/N		8		рF
Drive Level	DL		10	100	μW
Operating Temperature*	Topr (ES Option)	-40		+125	°C
Storage Temperature	Tstg	-40		+125	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm

Frequency (MHz)	ESR Ω Max.
16.000 ~ 19.999	150
20.000 ~ 25.999	100
26.000 ~ 39.999	80
40.000 ~ 48.000	70

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

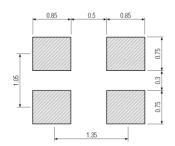


Figure 2) Suggested land

 $U = -55 \sim +125 °C$

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 $K = \pm 10 ppm \dagger$

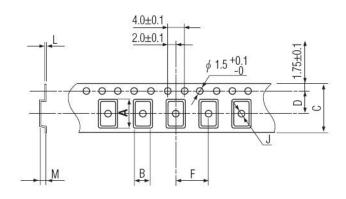
PART NUMBERING GUIDE: Example ECS-240-8-37Q-ES-TR

ECS - FR	REQUENCY ABBREVIATION	LOAD	PACKAGE		AVAILABLE OP	TIONS	PACKAGING
		CAPACITANCE		Tolerance	e Stability	Temp Range	
ECS	240 = 24.000 MHz See P/N Guide	8 = 8 pF S=Series	37Q = ECX-1637Q	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	Blank= Std L = -10 ~ +70°C M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C	& Reel
	/ailable options in P/N. CS for availability over extend	ed temp range.			$T = \pm 20 \text{ ppm } + $ $W = \pm 15 \text{ ppm } + $	P = -40 ~ +105°C S = -40 ~ +125°C	



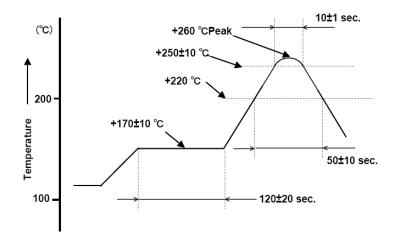


POCKET TAPE DIMENSIONS (mm)



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



Fiaure 1)	Suggested	Re	flow	Pro	file
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DEVELOPED FREQUENCIES						
Abbreviation	Frequency (MHZ)					
192	19.200					
200	20.000					
240	24.000					
245.7	24.5760					
250	25.000					
260	26.000					
270	27.000					
271.2	27.120					
300	30.000					
320	32.000					
400	40.000					
480	48.000					