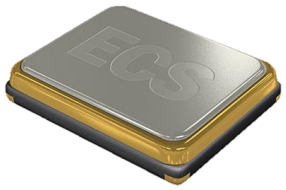
ECX-1637Q
SMD Crystal

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
- RoHS Compliant
- AEC-Q200 Qualified

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1637Q			UNITS
		MIN	TYP	MAX	
Frequency		16.000		60.000	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		pF
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 ~ 60.000	70

DIMENSIONS (mm)

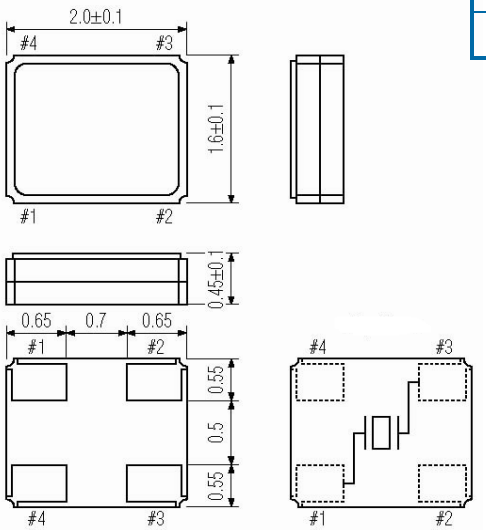


Figure 1) *Top, Side, and Bottom*

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

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

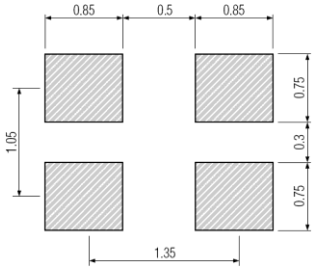


Figure 2) *Suggested land pattern*

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

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
			Tolerance	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 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 = Tape & Reel 3K/Reel

* Specify available options in P/N.
† Contact ECS for availability over extended temp range.

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