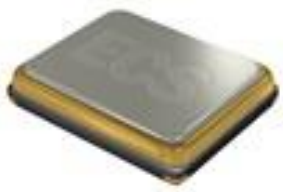
ECX-53Q
SMD CRYSTAL

The ECX-53Q is a miniature SMD Crystal with a 3.2 x 5 x 1.1 mm ceramic package. AEC-Q200 Qualified.

Request a Sample

ECX-53Q SMD CRYSTAL



- Compact and low profile
- Extended Temp. Range Option
- RoHS Compliant
- AEC-Q200 Qualified

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-53Q			UNITS
		MIN	TYP	MAX	
Frequency		8.000		54.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@ +25°C			± 30	ppm
Frequency Stability*	-40 ~ +125°C (DS Option)			± 100	ppm
Shunt Capacitance	Co			5	pF
Load Capacitance	Specify in P/N	6	20	Series	pF
Drive Level	DL			300	µW
Operating Temperature*	Topr (Y Option)	-40		+150	°C
Storage Temperature	Tstg	-55		+150	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm

Frequency (MHz)	ESR Ω Max.
8.000 ~ 11.999	100
12.000 ~ 13.999	60
14.000 ~ 19.999	50
20.000 ~ 54.000	40

DIMENSIONS (mm)

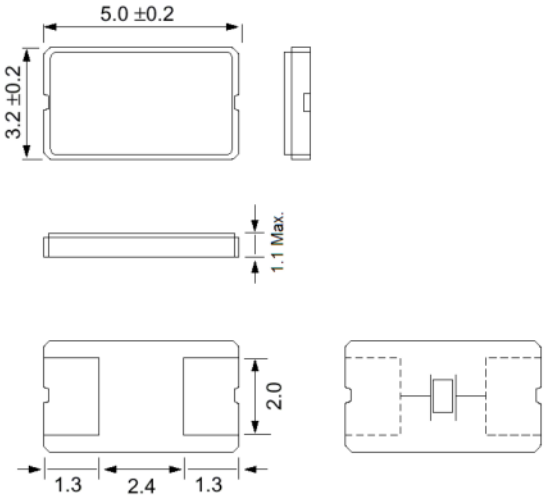


Figure 1) *Top, Side, and Bottom*

Crystal is symmetrical, pad 1 & 2 are interchangeable..

Pad Connections	
1	In/Out
2	Out/In

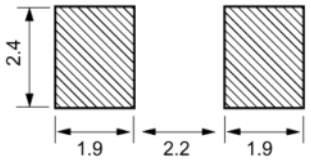


Figure 2) *Suggested land*

PART NUMBERING GUIDE: Example ECS-200-8-30Q-VY-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
			Tolerance	Stability	Temp Range	
ECS	200 = 20.000 MHz See P/N Guide	8 = 8 pF S = Series	30Q = ECX-53Q	Blank = ±30 ppm A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	V= ± 150 ppm D= ± 100 ppm E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm † W = ± 15 ppm † K = ± 10 ppm †	L = -10 ~ +70°C M = -20 ~ +70°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C U = -55 ~ +125°C Y = -40 ~ +150°C	TR = Tape & Reel 1K/Reel

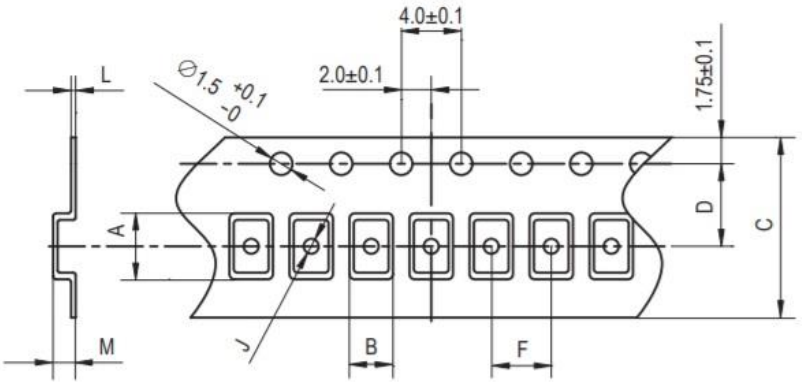
* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

Rev.2019

15351 West 109th Street | Lenexa, KS 66219 | Phone: 913.782.7787 | Fax: 913.782.6991 | www.ecsxtal.com

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
5.5	3.7	12.0	5.5	8.0	1.5	0.3	1.65	180	1000pcs

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

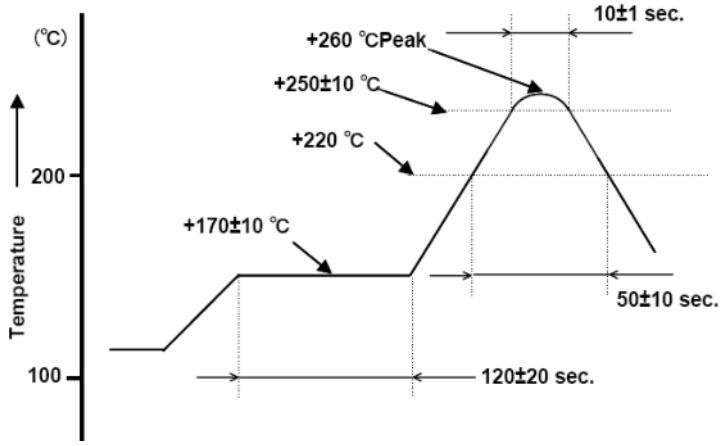


Figure 1) *Suggested Reflow Profile*