



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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The ECX-1247Q is a very compact SMD Crystal with a 1.6 x 1.2 mm footprint. AEC-Q200 Qualified.

Request a Sample

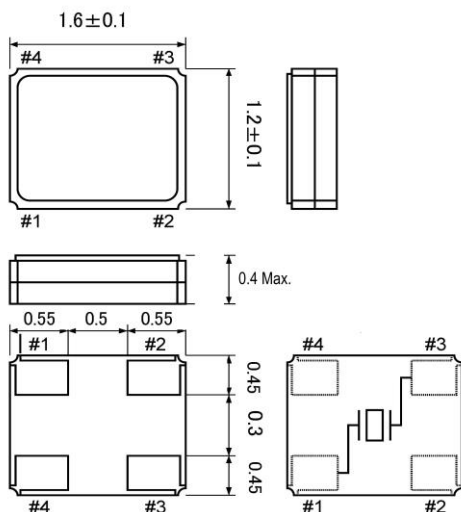
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1247Q			UNITS
		MIN	TYP	MAX	
Frequency		24.000		60.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@ +25°C			± 30	ppm
Frequency Stability*	-40 ~ +125°C (ES Opt)			± 50	ppm
Shunt Capacitance	Co			5	pF
Load Capacitance	Specify in P/N		8		pF
Drive Level	DL		10	100	µW
Operating Temperature*	Topr (S Opt)	-40		+125	°C
Storage Temperature	Tstg	-40		+125	°C
Aging (Per Year)	@ +25°C ±3°C			±5	ppm



- Low Profile
- 1.6 x 1.2 mm Footprint
- RoHS Compliant
- AEC-Q200 Qualified

DIMENSIONS (mm)



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

Frequency (MHz)	ESR Ω Max.
24.000 ~ 40.000	150
41.000 ~ 60.000	100

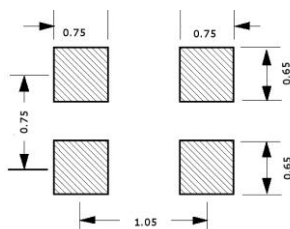


Figure 1) Top, Side, and Bottom

Figure 2) Suggested land pattern

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

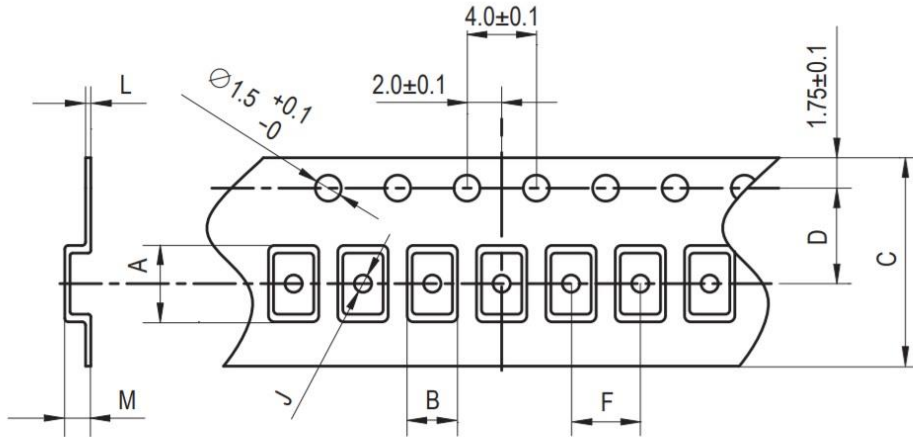
PART NUMBERING GUIDE: Example ECS-260-8-47Q-CES-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
			Tolerance	Stability	Temp Range	
ECS	260 = 26.000 MHz See P/N Guide	47Q = ECX- 1247Q	Blank = ±30 ppm A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 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 Y = -30 ~ +85°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C	TR = Tape & Reel 1K/Reel

* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
1.84	1.55	8.0	3.5	4.0	0.5	0.25	0.45	180	1000

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

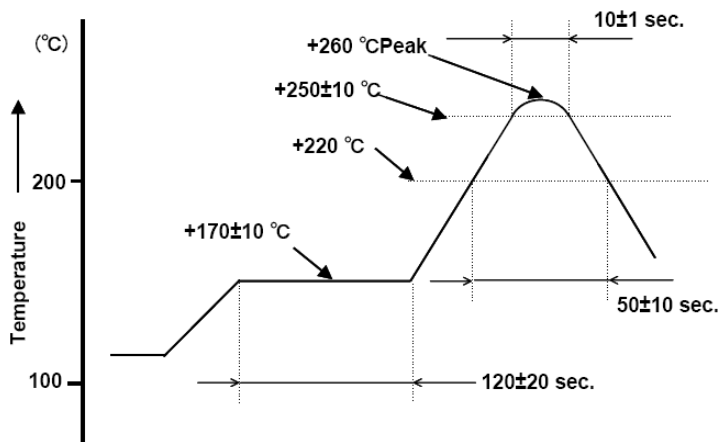


Figure 1) Suggested Reflow Profile