

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











- ► Low profile
- ► 4.0 x 2.5 mm Footprint
- Extended Temp Range Option
- RoHS Compliant

ECX-42 SMD QUARTZ CRYSTAL

The miniature ECX-42 is a compact SMD Crystal. The 4.0 x 2.5 x 0.8 mm ceramic package is ideal for today's SMD manufacturing environment.

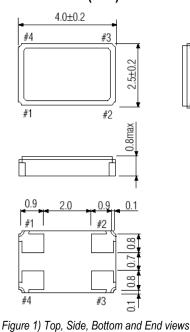
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

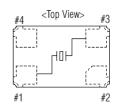
PARAMETERS	CONDITIONS	ECX-42			UNITS	
FARAIVETERS CONDITIONS	MIN	TYP	MAX	UNITS		
Frequency Range	requency Range			50.000	MHz	
Frequency Tolerance	at +25°C			± 30 *	ppm	
Frequency Stability	-10 to +70°C			± 50 *	ppm	
Shunt Capacitance				5	pF	
Load Capacitance	Specify in P/N		12		pF	
Drive Level				300	μW	
Operating Temperature		-10		+70	°C	
Storage Temperature		-55		+125	°C	
Aging (Per Year)	@ +25°C ±3°C			±5	ppm	

EQUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω
12.00 ~ 15.999	Fundamental	80	20.000 ~ 23.999	Fundamental	50
16.000 ~ 19.999	Fundamental	60	24.000 ~ 50.000	Fundamental	40

DIMENSIONS (mm)





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

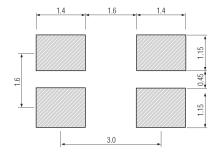
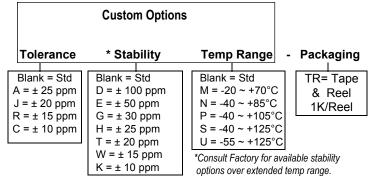


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-200-20-42-TR

ECS - Frequency Abbreviation - Load Capacitance - Package

200 = 20.000 MHz See P/N Guide 20 =20 pF S=Series 42 = ECX-42



Rev. 11/11