

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











- Cost effectiveLow profile
- ► Pb Free/RoHS Compliant

CSM-3X Quartz Crystal

The CSM-3X is the miniature low profile resistance weld type SMD quartz crystal. Reduces footprint of CSM-7X (HC-49USX SMD) by 50%.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CSM-3X			UNITS	
PARAMETERS	CONDITIONS	MIN	TYP	MAX	ONITS	
Frequency Range	fo	12.000		40.000	MHz	
Frequency Tolerance	at +25°C			± 30	ppm	
Frequency Stability ref @+25°C	Standard -10 to +70°C			± 50	ppm	
Shunt Capacitance	Со			7	pF	
Load Capacitance (CL)	Specify in P/N	10	20	Series	pF	
Drive Level				100	μW	
Operating Temperature	Standard	-10		+70	°C	
Storage Temperature		-40		+85	°C	
Aging (First 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
12.000 ~ 15.999	Fundamental	60	30.000 ~ 40.000	Fundamental	40
16.000 ~ 29.999	Fundamental	50			

PACKAGE DIMENSIONS (mm)



