



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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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

ECS Part Numbers	Frequency
ECS-094.9453-CDX-0313	9.49453 MHz
ECS-098.4375-CDX-0314	9.84375 MHz
ECS-120.9375-CDX-0315	12.09375 MHz
ECS-130.625-CDX-0316	13.0625 MHz
ECS-135.60-CDX-0317	13.560 MHz

Electrical Characteristics

Parameters	Value
Frequency Tolerance @ +25°C	± 30 PPM Max.
Temperature Stability (-10° to +70°C)	± 50 PPM Max.
Equivalent Series Resistance	30 Ohms Max.
Motional Capacitance	10 fF Typ.
Load Capacitance	10 pF
Crystal Q	70K Min.
Shunt Capacitance	5 pF Max.
Drive Level	500 µW Max.
Aging (First Year @ +25°C)	± 5 PPM Max.
Operating Temperature	-10 to +70°C
Storage Temperature	-30 to +85°C

Package Dimensions (mm)

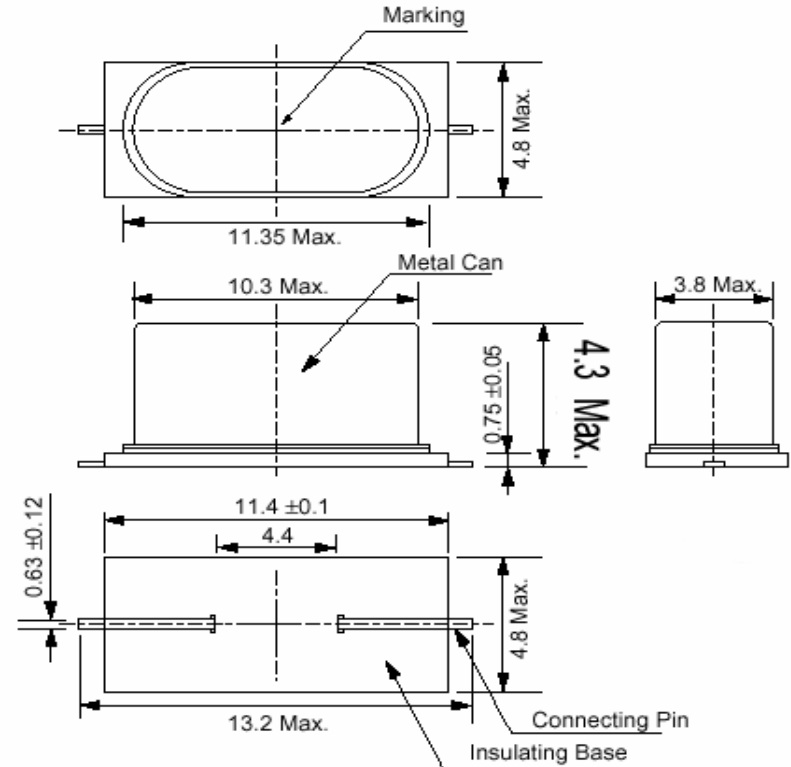


Figure 1) Top, Side, Bottom and End views



SIGNATURES		DATE	TITLE	ECS INC. INTERNATIONAL 1105 S. Ridgeview Olathe, KS 66062 (913) 782-7787 www.ecsxtal.com	
DRN	RC	9/19/2005	CSM-7 SMD Crystal for Micrel Transmitter IC	REV -	
CHK	BL	9/19/2005			
APP	DK	9/19/2005			
Dimensions in mm			SIZE A	DWG NO CDX-0313-0317	REV
			CAGE CODE: 1G8B7	SHEET 1 OF 1	