



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

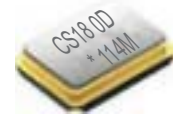
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



CRYSTAL

3.2 x 2.5mm SURFACE MOUNT
CRYSTAL UNIT



ABSOLUTE MAXIMUM RATINGS

TABLE 1.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Storage Temperature		-55	-	125	°C	

ELECTRICAL SPECIFICATIONS

TABLE 2.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Center Frequency	(Fo)	-	114.2850	-	MHz	
Calibration Tolerance @ 25°C						
Model CS-018		-100	-	100	ppm	
Model CS-023		-20	-	20	ppm	
Frequency Stability vs. Temperature						
Model CS-018		-100	-	100	ppm	
Model CS-023		-20	-	20	ppm	
Operating Temperature Range		-40	-	85	°C	
Mode		-	3 rd Overtone	-	-	
Type/Angle of Quartz Cut		-	AT-Cut	-	-	
Aging (at 25°C)		-3	-	3	ppm/year	
Shunt Capacitance	(Co)	-	1.8	-	pF	
Load Capacitance	(CL)	-	18	-	pF	
Equivalent Series Resistance		-	-	80	Ohm	
Drive Level		-	100	-	u Watts	
Insulation Resistance		-	500	-	M Ohm	

Model CS-018
Model CS-023

DESCRIPTION

The Connor-Winfield CS-018 and CS-023 are 3.2x2.5mm Surface Mount Crystal, designed for applications requiring small packaged tight tolerance crystals. The surface mount package is designed for high-density mounting and is optimum for mass production.

FEATURES

FREQUENCY: 114.285 MHZ

FREQUENCY CALIBRATION:

MODEL CS-018 = ±100ppm

MODEL CS-023 = ±20ppm

FREQUENCY STABILITY:

MODEL CS-018 = ±100ppm

MODEL CS-023 = ±20ppm

TEMPERATURE RANGE -40 to 85°C

SURFACE MOUNT PACKAGE

HERMETICALLY SEALED PACKAGE

TAPE AND REEL PACKAGING

RoHS COMPLIANT

ORDERING INFORMATION

CS-018 - 114.285M

CS-023 - 114.285M

CRYSTAL
SERIES

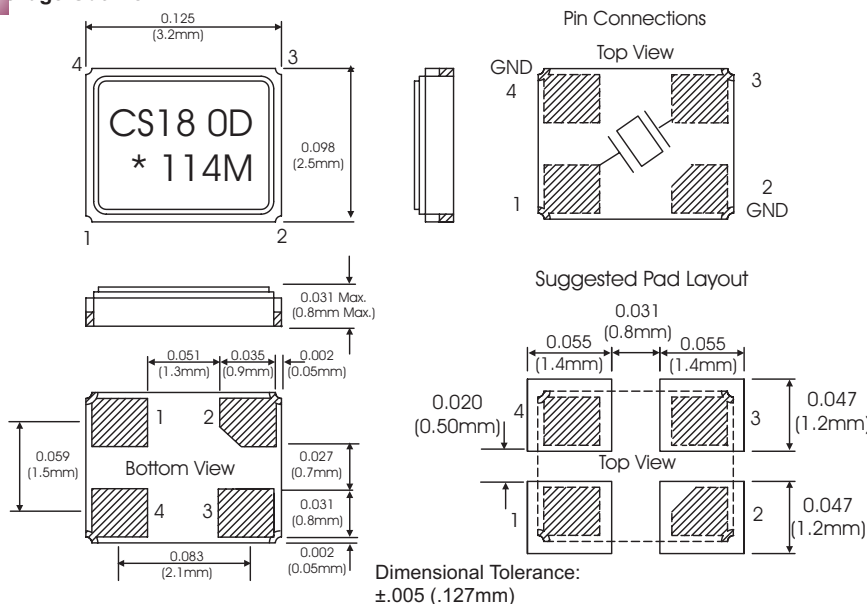
CENTER
FREQUENCY

PACKAGE CHARACTERISTICS

TABLE 3.0

Package	Hermetically sealed, leadless ceramic package.
Leakage	0.01ppm atm. cc/sec. maximum

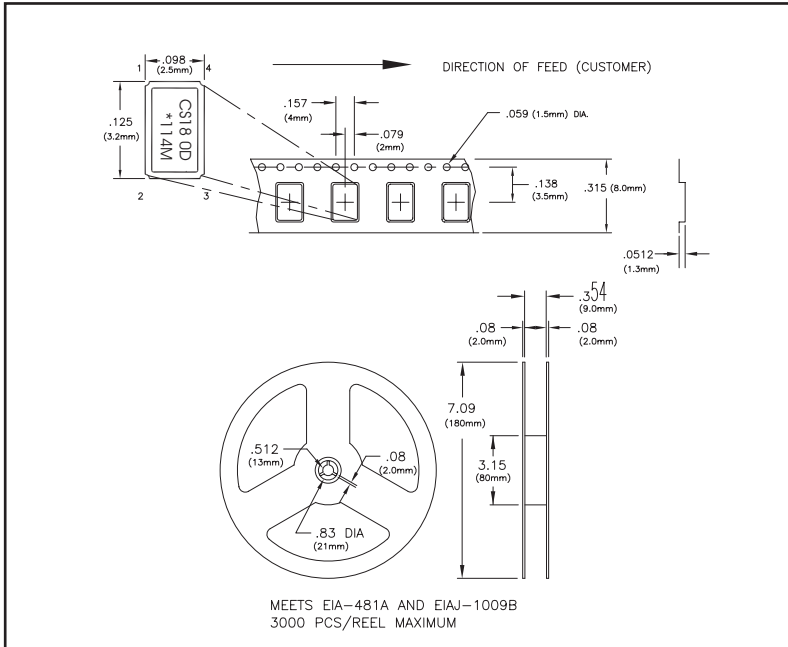
Package Outline



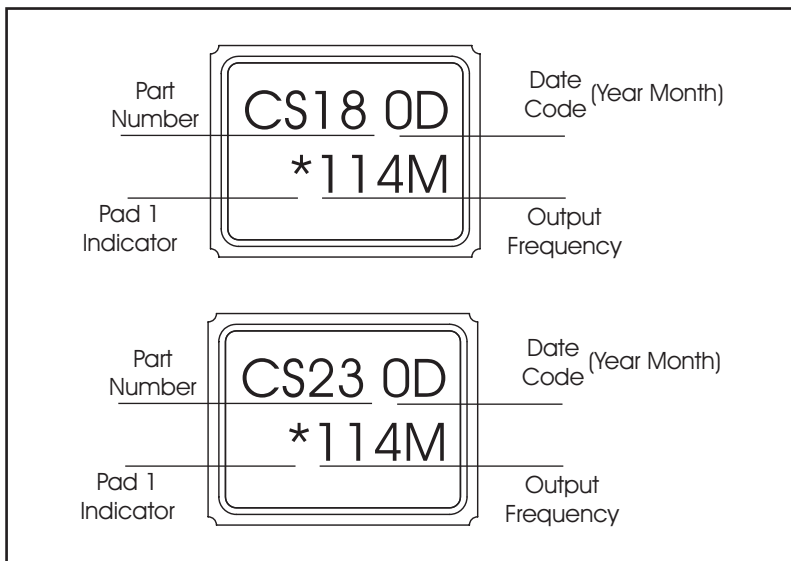
Specifications subject to change without notice.

CRYSTAL

Tape and Reel Information



Marking Information



Date Code Information

Date Code

Year Code	Month Code
0 = 2010	A = January
1 = 2011	B = February
2 = 2012	C = March
3 = 2013	D = April
4 = 2014	E = May
5 = 2015	F = June
	G = July
	H = August
	J = September
	K = October
	M = November
	N = December

Date Code Example:

0D
0 = 2010, D = April

Solder Profile

