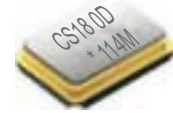


CRYSTAL

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 <sup>rd</sup> 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

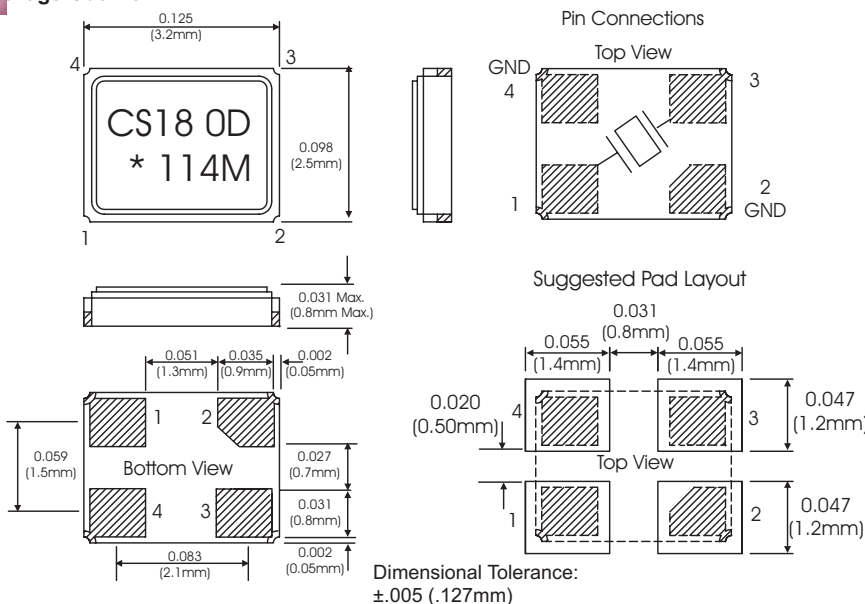
CENTER  
FREQUENCY

PACKAGE CHARACTERISTICS

TABLE 3.0

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

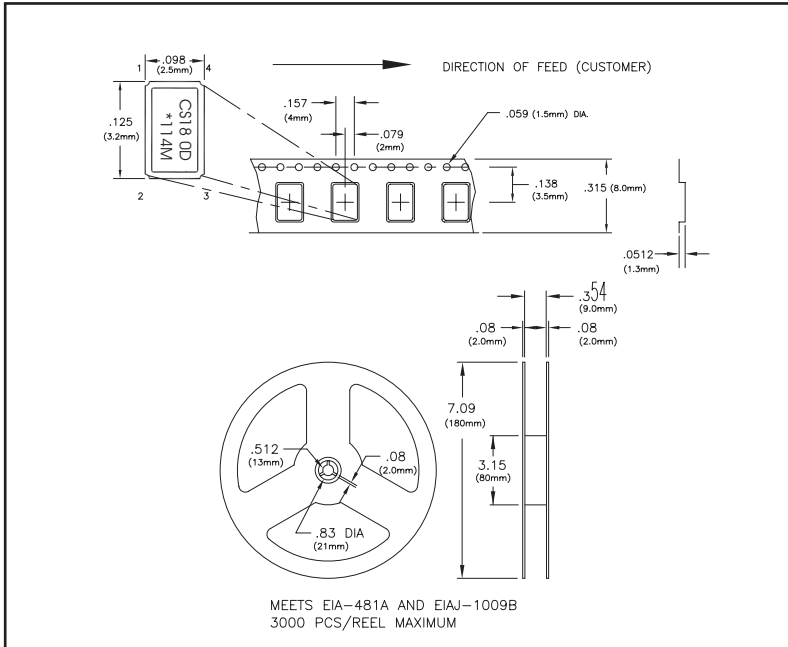
Package Outline



Specifications subject to change without notice.

**CRYSTAL**

Tape and Reel Information



Date Code Information

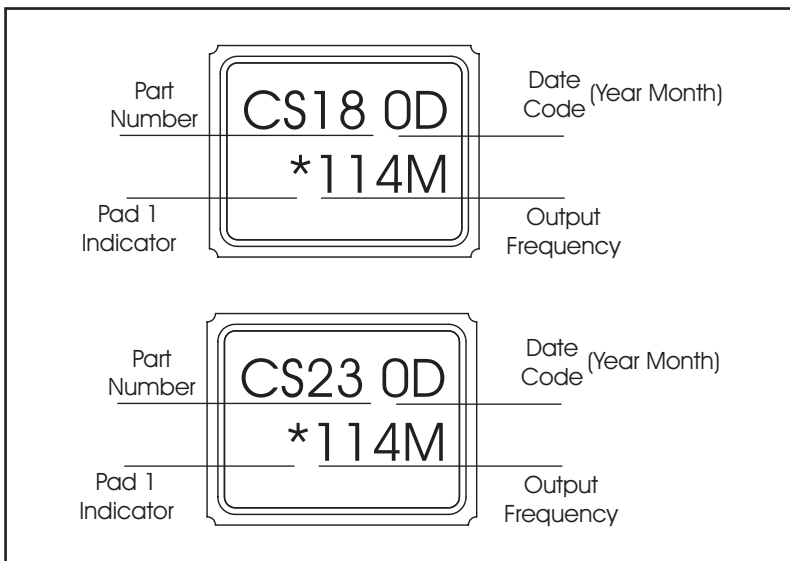
**Date Code**

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

Marking Information



Solder Profile

