CS-018 and CS-023 3.2x2.5mm Crystal Resonator



2111 Comprehensive Drive Aurora, Illinois 60505 Phone: 630-851-4722 Fax: 630-851-5040 www.conwin.com

US Headquarters: 630-851-4722 European Headquarters +353-61-472221

Description:

The Connor-Winfield CS-018 and CS-023 are a 3.2x2.5mm surface mount AT-cut 3rd Overtone crystals. They are used as reference crystals in many frequency synthesizer and PLL applications.

Features:

- Frequency: 114.285 MHz
- Frequency Calibration: ± 20ppm
- Frequency Stability: CS-018: ±100 ppm CS-023: ±20ppm
- Temperature Range: -40 to 85°C
- Surface Mount Package
- Tape and Reel Packaging
- RoHS Compliant / Lead Free

Electrical Specifications

Parameter	Minimum	Nominal	Maximum	Units	Notes
Output Frequency (Fo)	-	114.285	-	MHz	_
Calibration Tolerance @ 25°C					
Model CS-018	-100	-	100	ppm	
Model CS-023	-20	-	20	ppm	
Frequency Stability vs. Change in Temperature					
Model CS-018	-100	-	100	ppm	
Model CS-023	-20	-	20	ppm	
Operating Temperature Range:	-40	-	85	°C	
Operation Mode		3rd Overtone			
Cut		AT Cut			
Aging	-3	-	3	ppm/Year	
Shunt Capacitance: (Co)	-	-	2.5pF	рF	
Load Capacitance: (CL)	-	18	-	рF	
Equivalent Series Resistance @	25 °C -	-	80	Ohms	
Drive Level	=	100	200	uW	
Insulation Resistance	-	500	-	Mohm	@ 100 Vdc
Storage Temperature:	-55	-	125	°C	

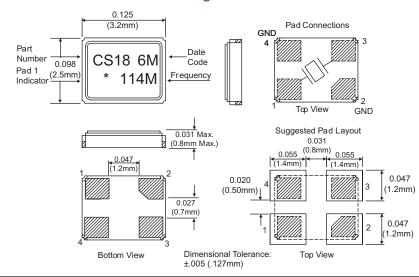
Package Characteristics

Package	Hermetically sealed ceramic 3.2x2.5mm SMD Package.	
Leakage	0.01ppm atm, cc/sec. maxamum	

Ordering Information

CS-018-114.285M CS-023-114.285M

Package Outline

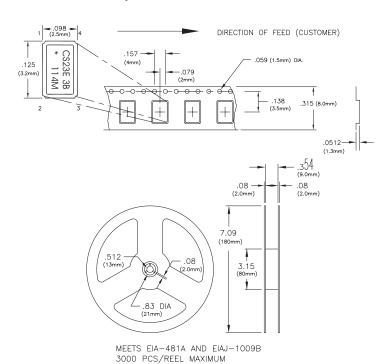




Bulletin	Xt174
Page	1 of 2
Revision	80
Date	10 Nov 2016



Tape and Reel Information



3 = 2013	A = January
4 = 2014	B = February
5 = 2015	C = March
6 = 2016	D = April
7 = 2017	E = May
8 = 2018	F = June
	G = July
	H = August
	J = September
	K = October
	M = November
	N = December

Date Code Information

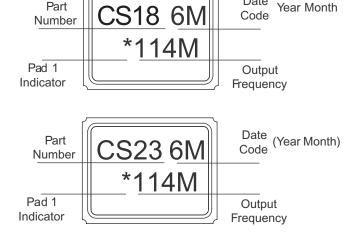
2 Character Date Code

Month Code

Year Code

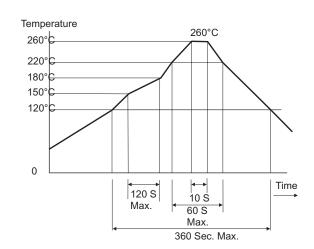
Date Code Example: ЗJ 3 = 2013, J = September

Marking Information



Date

Solder Profile



Bulletin	Xt174
Page	2 of 2
Revision	08
Date	10 Nov 2016