CS-044 3.2x2.5mm Crystal Resonator



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www.conwin.com

Description:

The Connor-Winfield model CS-044 is a 54MHz fundamental mode, AT-cut crystal in a 3.2x2.5mm surface mount package. The CS-044 is designed to be used as a reference crystal in synthesizer applications.

Features:

- Frequency: 54.0 MHz
- Frequency Calibration: +/-15 ppm
- Frequency Stability:+/-25 ppm
- Temperature Range: -40 to 85°C
- Surface Mount Package
- Tape and Reel Packaging
- RoHS Compliant / Lead Free
 √RoHS

Electrical Specifications

Parameter	Minimum	Nominal	Maximum	Units	Notes
Output Frequency (Fo)		54.0		MHz	
Frequency Calibration (@25°C)	-15		15	ppm	
Frequency Stability vs. Change	in Temperatui	re (Referenced t	o the frequenc	cy measured	@25°C)
	-25		25	ppm	
Operating Temperature Range:	-40		85	°C	
Operation Mode		Fundamental			
_ Cut		AT Cut			
Aging	-1		1	ppm/Year	
Shunt Capacitance: (Co)			2.0	рF	
Load Capacitance: (CL)		8		рF	
Equivalent Series Resistance @	25 °C		20	Ohms	
Drive Level		10	200	uW	
Insulation Resistance		500		Mohm	@ 100 Vdc
Storage Temperature:	-40		95	°C	

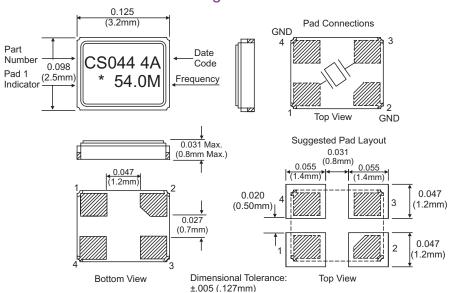
Package Characteristics

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

Ordering Information

CS-044-054.0M

Package Outline



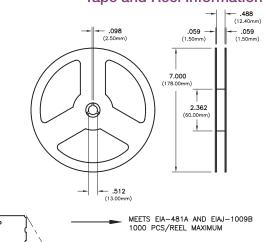


Bulletin	Xt390
Page	1 of 2
Revision	03
Date	23 July 2019

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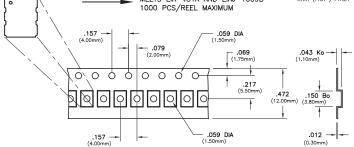
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Tape and Reel Information



POCKET SIZE		
(Ao)	2.80mm (.110")	
(Bo)	3.80mm (.150")	
(Ko)	1.10mm (.043")	

12mm (.472") WIDTH 4mm (.157") PITCH



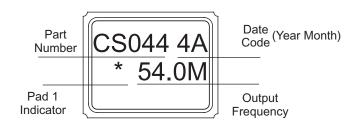
Date Code Information

2 Character Date Code

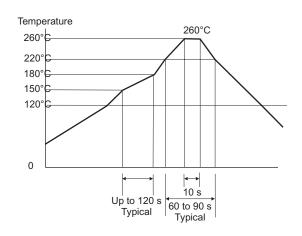
Year Code	Month Code
3 = 2013	A = January
4 = 2014	B = February
5 = 2015	C = March
6 = 2016	D = April
7 = 2017	E = May
8 = 2018	F = June
9 = 2019	G = July
0 = 2020	H = August
1 = 2021	J = September
2 = 2022	K = October
	M = November
	N = December

Date Code Example: 9G 9 = 2019, G = July

Marking Information



Solder Profile



Meets IPC/JEDEC J-STD-020C

Revision History

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Revis	sion Date	Revision.
00	01/14/14	New Release
01	07/08/14	Update to Electrical Specs
02	08/03/15	Update to Electrical Specs and Digi-Key
03	07/23/19	Updated Tape and Reel dimensions

Bulletin	Xt390
Page	2 of 2
Revision	03
Date	23 July 2019