	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free				

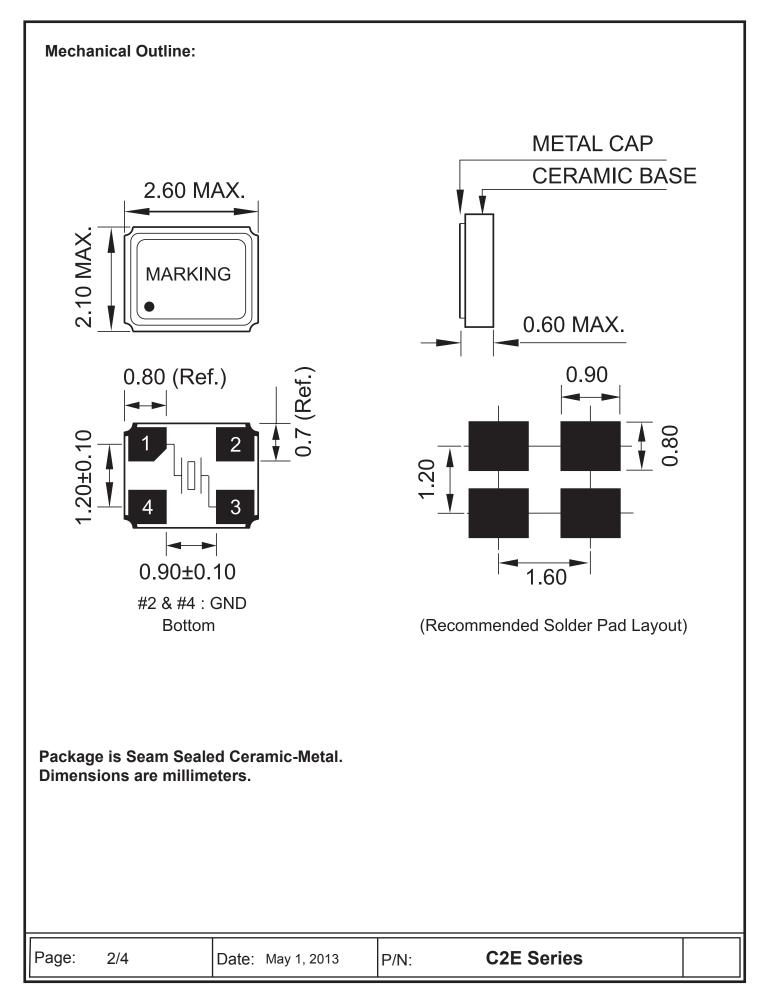
Electrical Specifications:

Frequency Range		12.000 to 60.000	MHz	
Mode of Oscillation	Fundamental	12.000 to 60.000	IVITIZ	
	Standard	±30		
		±25	5514 14	
Frequency Tolerance at 25°C	Ontional	±20	PPM Max (Note 1)	
	Optional -	±15		
		±10		
	Standard	±50		
		±30		
Frequency Stability over	Optional	±25	PPM Max	
Temperature Range		±20	(Note 1)	
		±15		
		±10*		
Operating Temperature Range	Standard	-10 to +70		
	Extended	-40 to +85	° C	
Storage Temperature Range		-55 to +125		
Aging per Year		±3	PPM Max	
Load Capacitance		7 to 32 and Series Resonance		
Shunt Capacitance		5.0	pF	
Equivalent Series Resistance (ESR)		See ESR Table	Ohms	
Drive Level		100	uW Typ	

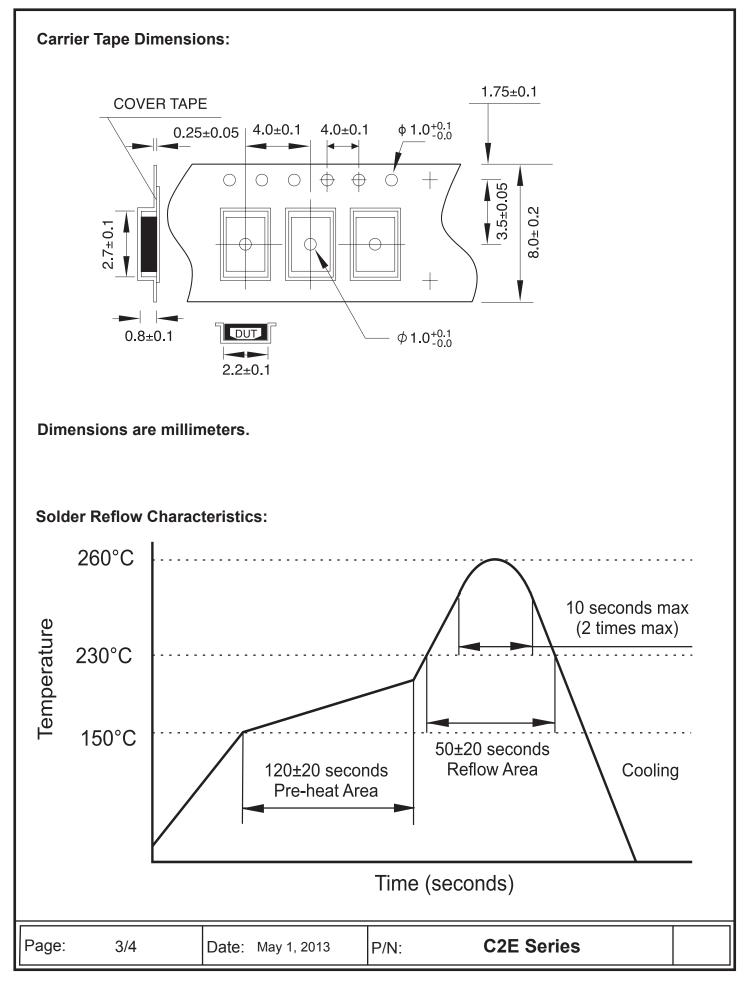
Frequency Range and ESR Values:

Frequency Range in MHz	ESR Ohm Max	Mode of Operation
12.000 to 15.999	300	Fundamental
16.000 to 29.999	100	Fundamental
30.000 to 60.000	70	Fundamental

Accurate Kinetic Energy 11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC All dimensions are millimeters. CAD: TCR Review: EG	Specification Title: Microprocessor Crystal Unit Low Profile 2.0 x 2.5 millimeter Surface Mount General Product Specification	
Appr: JL Page: 1/4 Date: May 1, 2013	Part Number: C2E Series	



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Series		C	Parameter
Package		2E	2.5 x 2.0 mm
Fraguenar		-	NAL 1-
Frequency		12.000 to 60.000	MHz
		- 7	7 pF
		10	10 pF
	·	12	12 pF
		16	16 pF
Load Ca	apacitance	18	18 pF
		20	20 pF
	·	32	32 pF
		S	Series
		-	
	Standard	30	±30 PPM
Frequency Tolerance		25	±25 PPM
		20	±20 PPM
(Note 1)		15	± 15 PPM
		10	±10 PPM
	Standard	50	±50 PPM
		30	±30 PPM
Frequency Stability		25	±25 PPM
(Note 1)	Option	20	±20 PPM
		15	±15 PPM
		10	±10 PPM*
		-	
Temperature Range	Standard	See Notes	-10 to +70 °C
	Extended	X	-40 to +85 °C
	Dookoging		Topo and Bool
	Packaging	П	Tape and Reel

C2E-50.000-18-3050-R

C2E- 2.0 x 2.5 mm SMD Seam Seal Crystal Unit

50.000 MHz Nominal Frequency

18 pF Load Capacitance

3050: ±30 PPM Frequency Tolerance and ±50 PPM Frequency Stability

Fundamental Mode

-10 to +70° C Temperature Range

R: Tape and Reel Packaging

Notes:

1- Frequency Tolerance and Stability options are limited due to physical size.

* ±10 PPM Temperature Stability is only available from -30 to +85° C.

2- Standard Temperature Range does not need to be included in Part Number description.

- 3- Product is shipped in Tape and Reel configuration. Each reel contains 3000 pieces.
- 4- Quantities less than 3000 are shipped bulk in ESD pouches.
- 5- Specification subject to change without notice.

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