RoHS Compliant Pb - Lead Free

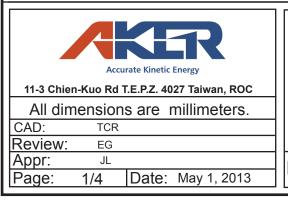
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		6.000 to 133.000	MHz	
Mode of Oscillation	Fundamental	6.000 to 48.000	MHZ	
Mode of Oscillation	Third Overtone	40.000 to 133.000		
	Standard	±30	PPM Max	
		±25		
Frequency Tolerance at 25°C	Ontional	±20		
	Optional	±15		
		±10		
	Standard	±50		
		±30	PPM Max	
Frequency Stability over	Optional	±25		
Temperature Range		±20	PPIVI IVIAX	
		±15		
		±10*		
Operating Temperature Bange	Standard	-10 to +70	° C	
Operating Temperature Range	Extended	-40 to +85		
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		10 to 32 and Series Resonance	pF	
Shunt Capacitance		7.0		
Equivalent Series Resistance (ESF	₹)	See ESR Table	Ohms	
Drive Level		100	uW Typ	
Insulation Resistance		500 at at 100 Vdc ± 15 Vdc	M Ohms	

Frequency Range and ESR Values:

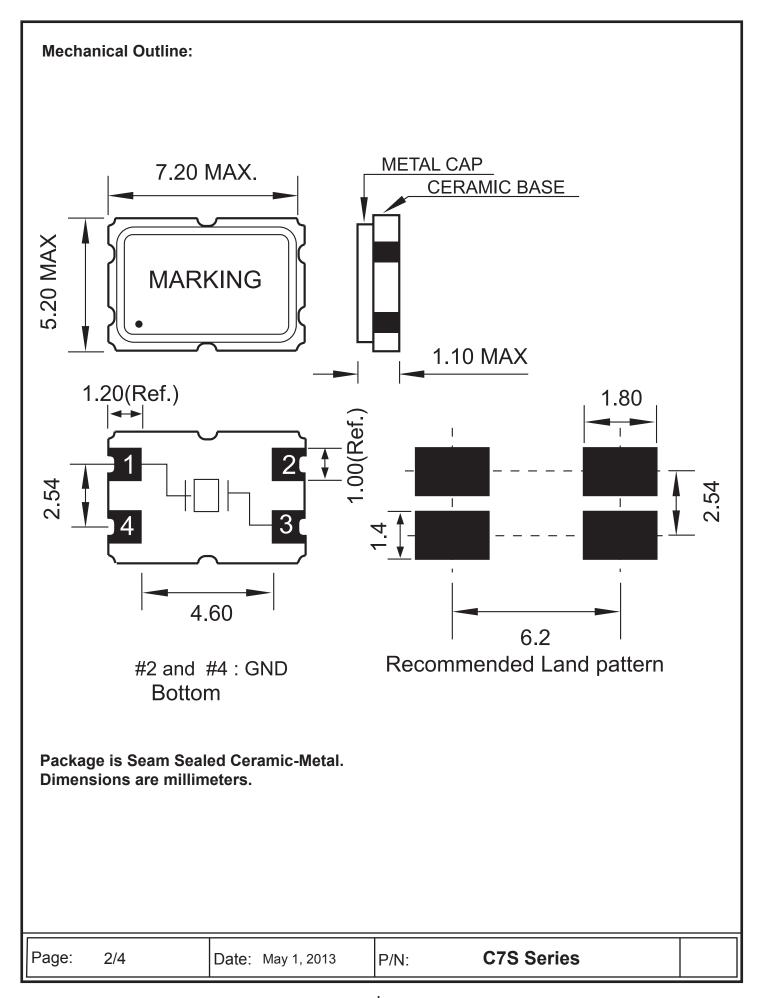
Frequency Range in MHz	ESR Ohm Max	Mode of Operation
6.000 to 10.000	110	Fundamental
10.100 to 12.000	60	Fundamental
12.100 to 20.000	45	Fundamental
20.100 to 48.000	30	Fundamental
40.000 to 52.000	80	Fundamental
52.100 to 133.000	60	Third Overtone

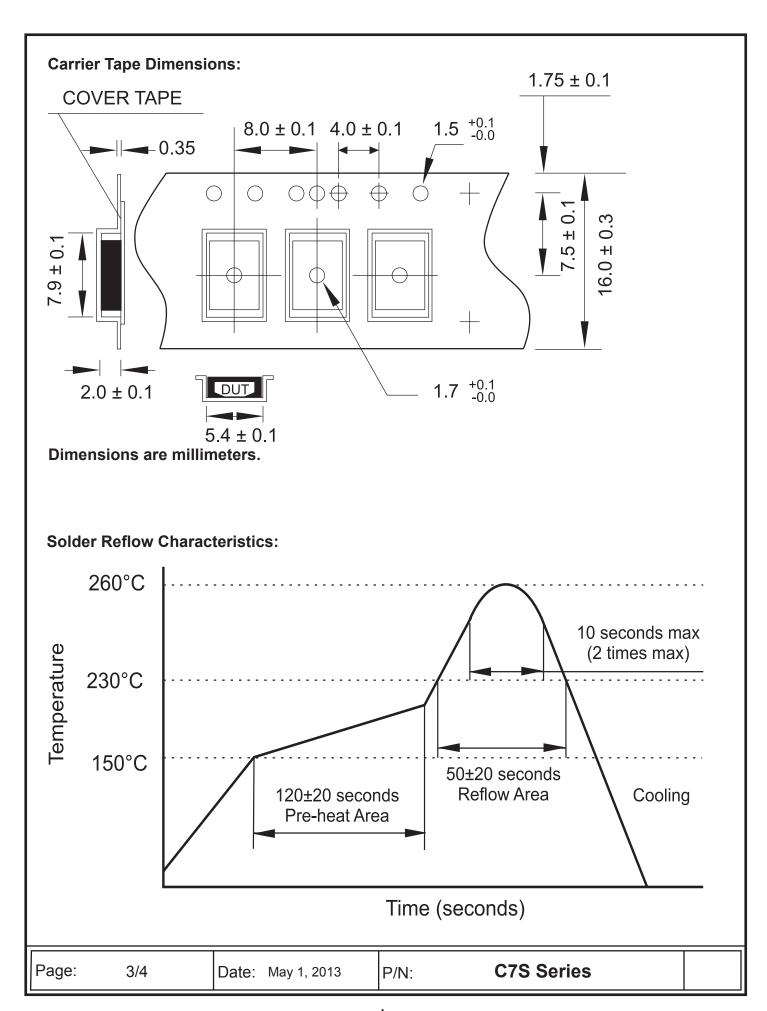


Specification Title:

Microprocessor Crystal Unit Low Profile 5 x 7 millimeter Surface Mount - 4 Pad General Product Specification

Part Number: C7S Series





How to build a Part Number:

Series		С	Parameter	
Package		7 S	5.0 x 7.0 mm	
		-		
Frequency		6.000 to 133.000	MHz	
		-		
Load Capacitance		10	10 pF	
		12	12 pF	
		16	16 pF	
		18	18 pF	
		20	20 pF	
		32	32 pF	
		S	Series	
		-		
	Standard	30	±30 PPM	
		25	±25 PPM	
Frequency Tolerance	Option	20	±20 PPM	
	Option	15	± 15 PPM	
		10	±10 PPM	
	Standard	50	±50 PPM	
		30	±30 PPM	
Frequency Stability		25	±25 PPM	
r requericy Stability	Option	20	±20 PPM	
		15	±15 PPM	
		10	±10 PPM*	
		-		
Mode of Oscillation		See Notes	Fundamental	
		3	Third Overtone	
		-		
Temperature Range	Standard	See Notes	-10 to +70 °C	
Tomporatare range	Option	X	-40 to +85 °C	
		-		
	Packaging	R	Tape and Reel	

Part Number Example:

C7S-64.000-18-3050-3-R

C7S-5 x 7 mm SMD Seam Seal Package - 4 pad

64.000 MHz Nominal Frequency

18 pF Load Capacitance

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

Third Overtone Mode

-10 to +70° C Temperature Range

R: Tape and Reel Packaging

Notes:

- 1- Fundamental mode does not need to be included in Part Number description.
 - * ±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 1000 pieces.
- 4- Quantities less than 1000 are shipped bulk in ESD pouches.
- 5- Specification subject to change without notice.

			_		
Page:	4/4	Date: May 1, 2013	P/N:	C7S Series	