RoHS Compliant Pb - Lead Free

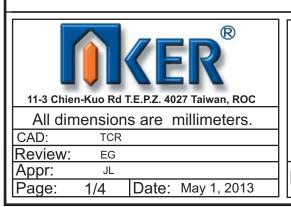
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		8.000 to 133.000	MHz	
Mode of Oscillation	Fundamental	10.000 to 52.000	MHZ	
Mode of Oscillation	Third Overtone	52.100 to 133.000		
	Standard	±30		
	Optional	±25	PPM Max	
Frequency Tolerance at 25°C		±20		
		±15		
		±10		
	Standard	±50		
	Optional	±30	- PPM Max	
Frequency Stability over		±25		
Temperature Range		±20		
		±15		
		±10*		
Operating Temperature Range	Standard	-10 to +70		
Operating reinperature Kange	Extended	-40 to +85	°C	
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		10 to 32 and Series Resonance	pF	
Shunt Capacitance		7.0	ρι	
Equivalent Series Resistance (ES	R)	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:

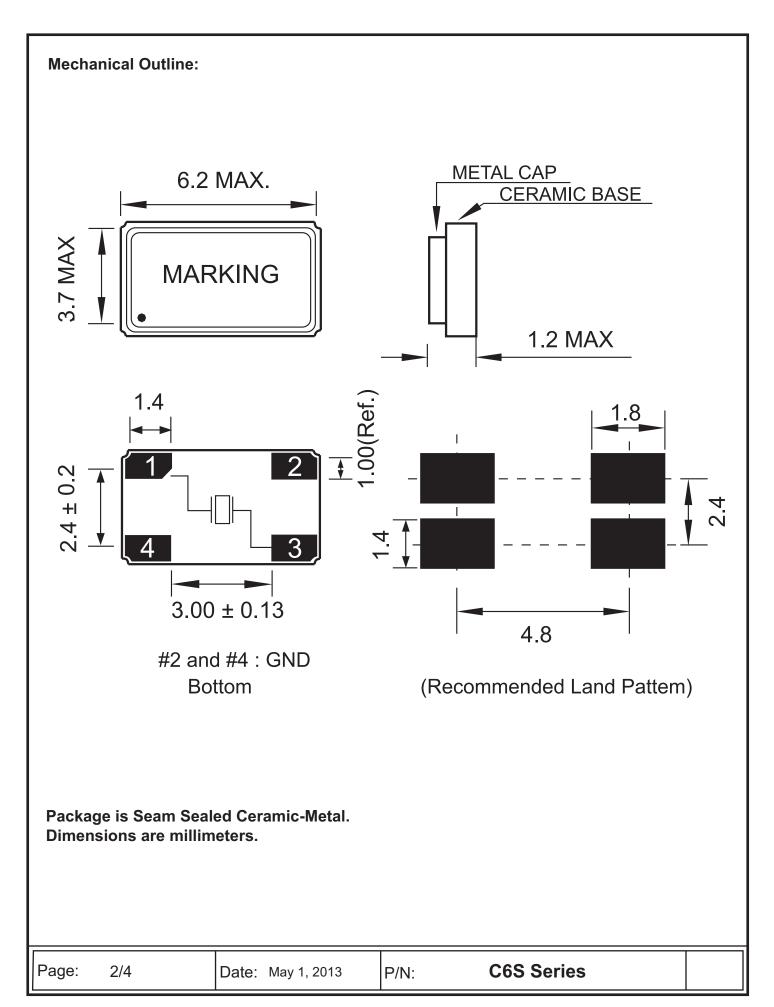
1 3				
ESR Ohm Max	Mode of Operation			
150	Fundamental			
80	Fundamental			
50	Fundamental			
40	Fundamental			
20	Fundamental			
70	Third Overtone			
	150 80 50 40 20			



Specification Title:

Microprocessor Crystal Unit Low Profile 6.0 x 3.5 millimeter Surface Mount - 4 Pad General Product Specification

Part Number: C6S Series



Carrier Tape Dimensions: 1.5 Dia 2.0 <u>4.0</u> 1.75 7.5 16.0 **Direction of Feed** 8.0 Dimensions are millimeters. **Solder Reflow Characteristics:** 260°C 10 seconds max **Temperature** (2 times max) 230°C 150°C 50±20 seconds 120±20 seconds Reflow Area Cooling Pre-heat Area Time (seconds) Page: **C6S Series** 3/4 Date: May 1, 2013 P/N:

How to build a Part Number:

Package 6S 6.0 x 3.5 mm - Frequency 8.000 to 133.000 MHz - 30 ±30 PPM 25 ±25 PPM	
- 30 ±30 PPM	
- 30 ±30 PPM	
25 ±25 DDM	
Frequency Tolerance 20 ±20 PPM	
15 ± 15 PPM	
10 ±10 PPM	
50 ±50 PPM	
30 ±30 PPM	
Frequency Stability 25 ±25 PPM	
20 ±20 PPM	
15 ±15 PPM	
10 ±10 PPM*	
-	
10 10 pF	
12 12pF	
16 16 pF	
Load Capacitance 18 18 pF	
20 20 pF	
32 32 pF	
S Series	
-	
Mode of Oscillation See Notes Fundamental	
Third Overtone	
-	
Temperature Range See Notes -10 to +70 °C	
Temperature Range X -40 to +85 °C	
-	
Packaging R Tape and Reel	

Part Number Example:

C6S-80.000-S-3030-3-R

C6S: 3.5 x 6.0 mm SMD Seam Seal Package - 4 Pad

80.000 MHz Nominal Frequency

S: Series Resonance

3030: ±30 PPM Frequency Tolerance and ±30 PPM Frequency Stability

3: 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: C6S Series	Date: May 1, 2013 P/N: C6S Series
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