Wavetron

Microprocessor Crystal Unit 5.0 x 3.2mm Surface Mount Package

RoHS Compliant

Features

- Seam Seal
- Excellent Solderability
- High Frequency Stability
- Excellent Thermal Hysteresis
- Excellent Vibration Resistance & Shock Resistance
- RoHS Compliant



Electrical Specifications

Frequency Range	8.000 to 150.000				
Mode of Oscillation	Fundamental	8.000 to 52.000	MHz		
	Third Overtone	40.000 to 150.000			
Fraguency Teleronee et 25°C	Standard	±30			
Frequency Tolerance at 25°C	Optional	± 25 to ±10	PPM Max		
Fraguency Stability over Temperature Dance	Standard	±50	РРМ Мах		
Frequency Stability over Temperature Range	Optional	±30 to ±10			
Operating Temperature Bongs	Standard	-20 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	pF			
Equivalent Ser Resistance (ESR)	See ESR Table	Ohms			
Drive Level	100	uW Max			
Insulation Resistance	500 at 100Vdc (±15Vdc)	M Ohm			

Frequency Range vs. ESR Values

Frequency Range in MHz	ESR Ohms Max	Mode of Operation	Frequency Range in MHz	ESR Ohms Max	Mode of Operation		
8.000 to 10.000	150	Fundamental	30.100 to 52.000	30	Fundamental		
10.100 to 12.000	90	Fundamental	40.000 to 52.000	100	Third Overtone		
12.100 to 15.000	15.000 70 Fundamental		52.100 to 80.000	Third Overtone			
15.100 to 30.000	15.100 to 30.000 50		80.100 to 150.000	80	Third Overtone		

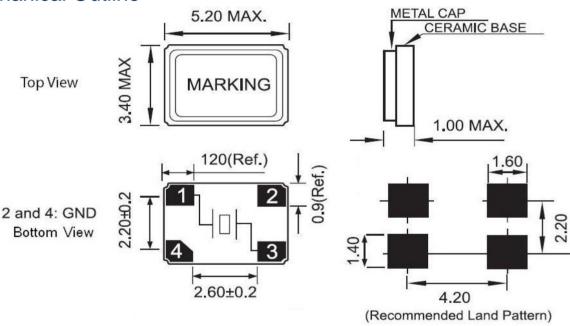
Wavetron

Part Numbering System

Туре	_	Frequency	_	Load Capacitance	_	Mode (*1)	_	Tolerance/ Stability (*1)	-	Extended Temperature (*1)	_	Tape & Reel
WSC50		in MHz		10 to 32 for Parallel or S for Series		3OT – Third Overtone		(PPM/PPM) e.g. 1020, 1010		EXT		TR

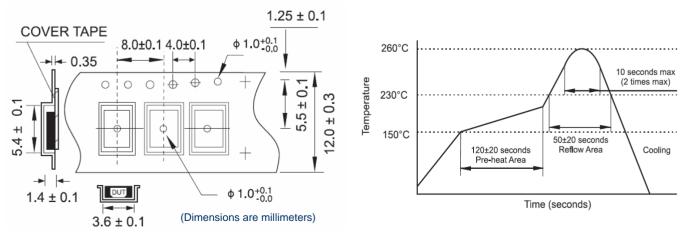
Examples: WSC50-12.000-18-TR, WSC50-48.000-18-3OT-TR or WSC50-52.000-S-1010-EXT-TR

Mechanical Outline



Carrier Tape Dimensions

Solder Reflow Characterisitc



Notes:

- 1 Fundamental Mode, Standard Tolerance/Stability and Standard Temperature Range, do not need to be included in Part Number description.
- 2 Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.
- 3 Specification subject to change without notice.