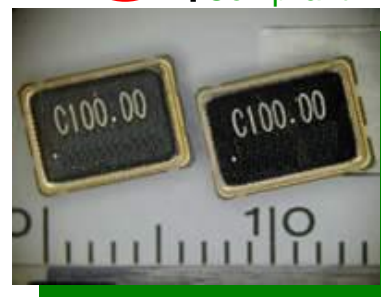


Surface Mount Clock Oscillator 7.0mm x 5.0mm Package



Features

- Small Package
- Excellent for high density packaging
- Suitable for reflow soldering
- Rohs Compliant



Electrical Specifications

Frequency Range		1.000 to 156.000					MHz
Temperature Stability		± 100 to ±25					PPM Max
Aging per Year		±5					
Operating Temperature Range	Standard	-10 to +70					°C
	Extended	-40 to +85					
Storage Temperature Range		-55 to +125					
Supply Voltage		1.8 ± 5%	2.5 ± 5%	2.85± 5%	3.3 ± 5%	5.0 ± 5%	mA Max
Input Current	1.000 to 32.000MHz	7	10	15	15	25	
	32.100 to 50.000MHz	15	12	20	20	40	
	50.100 to 70.000MHz	15	12	25	25	60	
	70.100 to 80.000MHz	-	60	30	40	60	
	80.100 to 125.000MHz	-	60	-	40	80	
125.100 to 156.000MHz	-	-	-	40	90		
Output Voltage	Logic High (Voh)	90% (80% at 1.8)					Vdd Min
	Logic Low (Vol)	10% (20% at 1.8)					Vdd Max
Output Symmetry	Standard	40 to 60					%
	Tight	45 to 55					
Output Current	Lol/Loh	2	4	2	2	2	mA Min
Output Load		15, 30, 50pF					HCMOS
Rise and Fall Time	1.000 to 32.000MHz	5	5	6	6	10	ns Max
	32.100 to 50.000MHz	3.5	5	6	6	5	
	50.100 to 70.000MHz	3.5	5	4	6	5	
	70.100 to 80.000MHz	-	5	4	6	5	
	80.100 to 125.000MHz	-	5	4	4	4	
125.100 to 156.000MHz	-	-	-	3	4		
Standby Current		10					uA Max
Enable-Disable Function		Tri-State					-
Output Disable Time		300	150				ns Max
Output Enable Time		10	10				ms Max
Start Up Time		10					ms Max

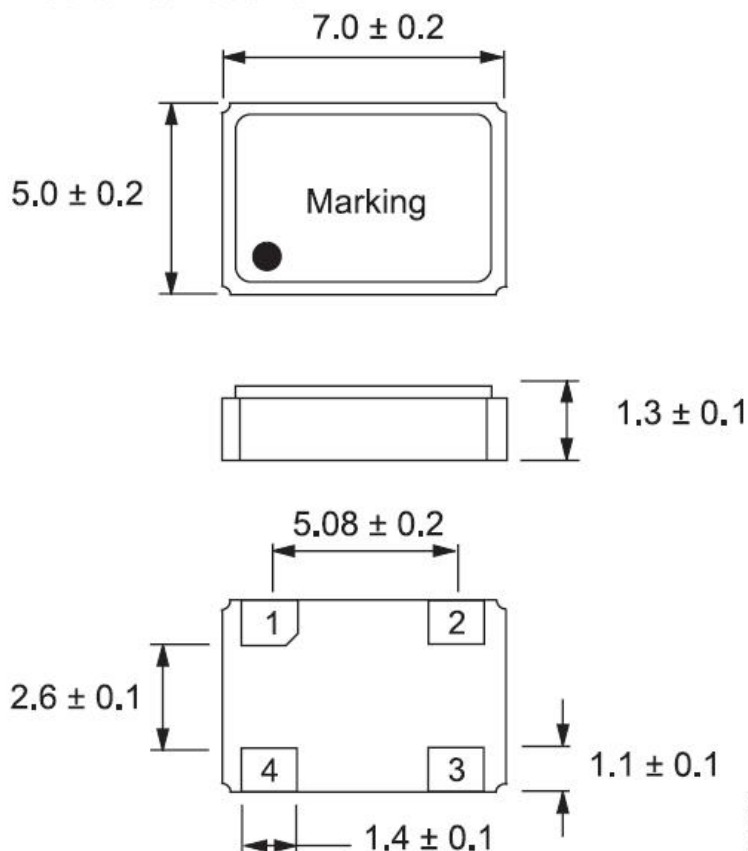
Temperature stability is inclusive of all Conditions : Calibration Tolerance at +25 °C, frequency stability over the operation temperature range , supply voltage, supply voltage change, output load change, shock, vibration, and 1st year aging at +25 °C

Part Numbering System

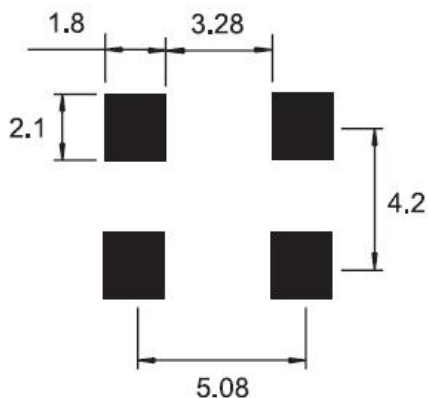
Type	Frequency Stability (PPM)		-	Supply Voltage (Vdd)		-	Frequency (MHz)	-	Duty Cycle (*1)		-	Extended Temperature (*1)	-	Output Load (pF Max HCMOS)	-	Tape & Reel
WSO70	10	± 100	-	50	+ 5.0 ± 10%	-	1.000 to 156.000	-	T	45/55%	-	EXT	-	15	-	TR
	05	± 50		33	+ 3.3 ± 10%											
	025	± 25		28	+ 2.85 ± 5%											
	02	± 20		25	+ 2.5 ± 5%											
			18	+ 1.8 ± 5%												

Example : WSO7010-33-24.576-15-TR
 WSO7005-50-50.000-EXT-15-TR
 WSO7002-33-32.000-T-30-TR

Mechanical Outline:

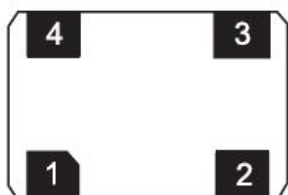


PCB Solder Pad Layout:



Package is Seam Sealed Ceramic-Metal.
 Dimensions are millimeters

Pad Connection and Enable/Disable Function:



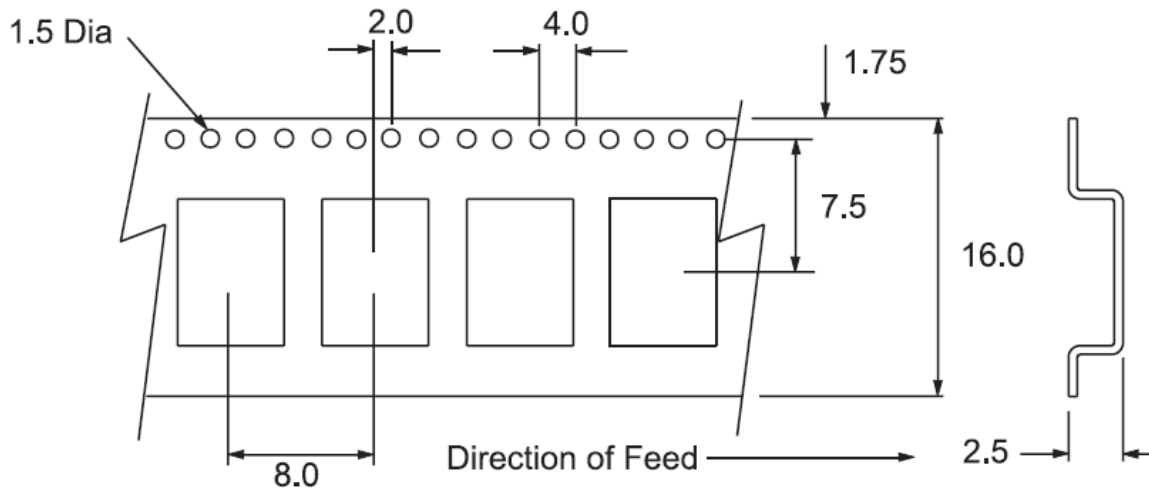
Top View

- 1- E/D
- 2- Gnd
- 3- Output
- 4- Vin

Pin1	Pin 3
High	Oscillation
Open	Oscillation
Low	High Impedance

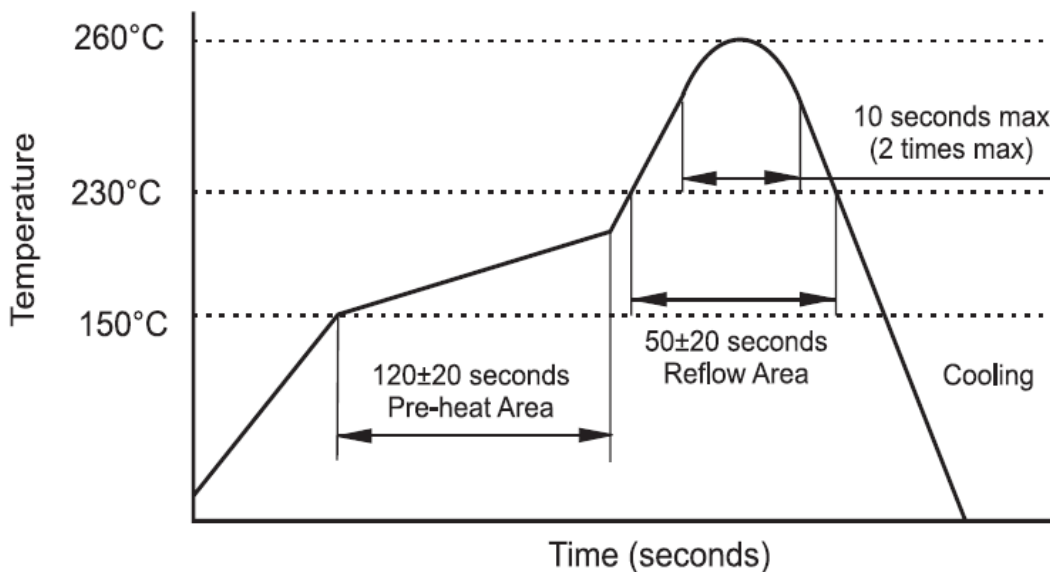
WSO70 Series

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



Notes:

- 1 – Standard Duty Cycle and Standard Temperature Range do not need to be included in Part Number description.
- 2 – Product is shipped in Tape & Reel Configuration. Each reel contains 1000pieces.
- 3 – Quantities less than 1000pcs are shipped bulk in ESD pouches
- 4 – Specification subject to change without notice