

WSC118

Wavetron

Microprocessor Crystal Unit 11.8 x 5.5mm Surface Mount Package



Features

- Low cost SMD package
- Low package Height of 2.5mm
- RoHS Compliant



Electrical Specifications

Frequency Range		3.579 to 25.000	MHz
Mode of Oscillation	Fundamental	3.579 to 25.000	
Frequency Tolerance at 25°C	Standard	±30	PPM Max
	Optional	±20 to ±10	
Frequency Stability over Temperature Range	Standard	±50	
	Optional	±30 to ±10	
Operating Temperature Range	Standard	-10 to +70	°C
	Extended	-40 to +85	
Storage Temperature Range		-55 to +125	
Aging		±5	PPM Max/Year
Load Capacitance		10 to 32 and Series Resonance	pF
Shunt Capacitance		7.0	
Equivalent Ser Resistance (ESR)		See ESR Table	Ohms
Drive Level		100	uW Max
Insulation Resistance		500 at 100Vdc (±15Vdc)	M Ohm

Frequency Range and ESR Values :

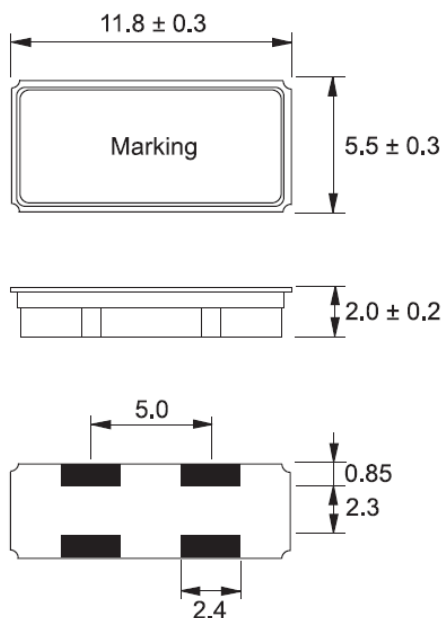
Frequency Range in MHz	ESR Ohm Max	Mode of Operation
3.579 – 3.999	200	Fundamental
4.000 – 5.999	150	
6.000 – 9.999	100	
10.000 – 13.999	80	
14.000 – 19.999	60	
20.000 – 25.000	50	

Part Numbering System

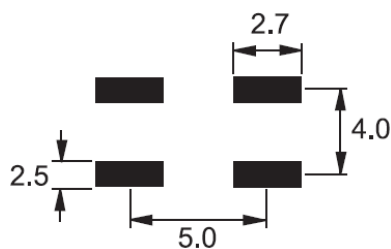
Type	Frequency	Load Capacitance	Tolerance/ Stability (*1)	Extended Temperature (*1)	Tape & Reel
WSC118	in MHz	10 to 32 for Parallel and S for Series	(PPM/PPM) e.g. 3030	EXT	TR

Examples : WSC118-12.000-18-TR, WSC118-8.000-S-TR or WSC118-18.000-18-3030-EXT-TR

Mechanical Outline



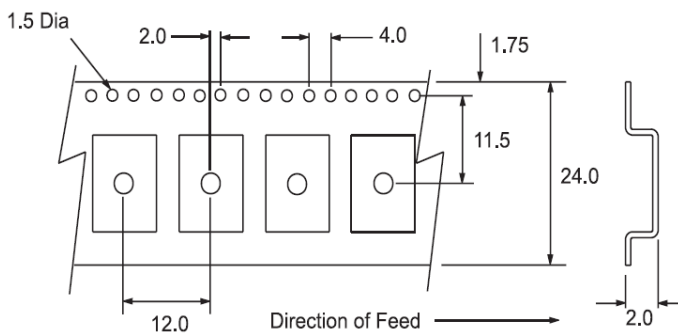
PCB Solder Pad Layout



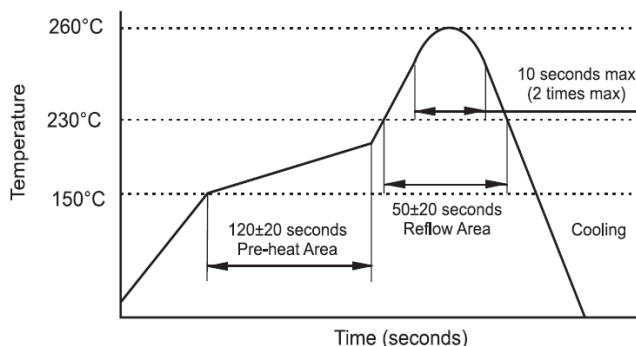
Pad Connection



Carrier Tape Dimensions



Solder Reflow Characteristics



Notes:

- 1 - 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.