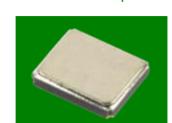
Wavetron

Microprocessor Crystal Unit 2.0 x 1.6mm 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 Rangeation Pesistance	20.000 to 66.000	MH		
Fraguency Televanes et 25°C	Standard	±30		
Frequency Tolerance at 25°C	Optional	± 25 to ±10	PPM Max (Note 1)	
Frequency Stability over Temperature Range	Standard	±50		
Frequency Stability over Temperature Kange	Optional	±30 to ±10		
Operating Temperature Penge	Standard	-10 to +70		
Operating Temperature Range	Extended	-40 to +85	°C	
Storage Temperature Range	-55 to +125			
Aging	±5	PPM Max/Year		
Load Capacitance	7 to 32 or Series Resonance	pF		
Shunt Capacitance	7.0			
Equivalent Ser Resistance (ESR)	See ESR Table	Ohms		
Drive Level	100	uW Typ		
Insul	500 at 100Vdc ± 15Vdc	M Ohm		

Frequency Range vs. ESR Values

Frequency Range in MHz	ESR Ohms Max	Mode of Operation		
20.000 to 25.000	200	Fundamental		
25.100 to 40.000	100	Fundamental		
40.000 to 66.000	60	Fundamental		

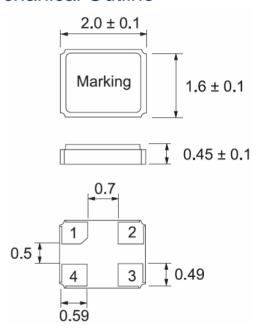


Part Numbering System

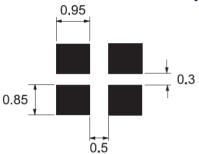
Туре	Fr	Frequency	Load Capacitance	Tolerance/ Stability(*1)		Extended Temperature(*1)		Tape & Reel		
WSC20	-	in MHz	-	7 to 32 for Parallel or S for Series		(PPM/PPM) e.g. 1020, 1010	-	EXT	-	TR

Examples: WSC20-22.000-18-TR or WSC20-50.000-S-1010-EXT-TR

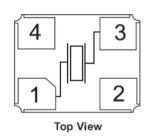
Mechanical Outline



PCB Solder Pad Layout

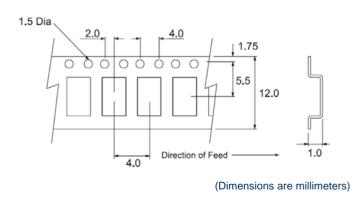


Pad Connection

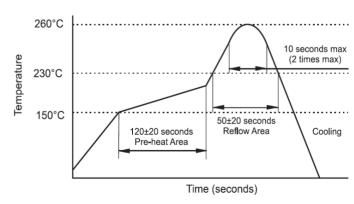


Package is Seam Sealed Ceramic-metal

Carrier Tape Dimensions



Solder Reflow Characteristics



inotes:

- 1 Frequency Tolerance and the stability options are limited due to the physical size
- 2 Standard Standard Temperature Range does 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.