

WDC5

Quartz Crystal Through Hole UM5 Type Leaded Package

Features

- Tight tolerance and stability over temperature
- Wide frequency range
- Excellent frequency source for telecom application
- Rohs Compliant

Electrical Specifications

Frequency Range		10.000 to 200.000		
Mode of Oscillation	Fundamental	10.000 to 65.000	MHz	
	Third Overtone	30.000 to 120.000		
	Fifth Overtone	80.000 to 130.000		
	Seventh Overtone	125.000 to 200.000		
Frequency Tolerance at 25°C	Standard	± 30	PPM Max	
	Optional	± 25 to ±10		
Frequency Stability over Temperature Range	Standard	±50	PPINI Max	
	Optional	±30 to ±10		
Operating Temperature Range	Standard	-20 to +70		
	Extended	-40 to +85	°C	
Storage Temperature Range		-55 to +125		
Aging		±5 first year ±3 thereafter	PPM Max/Year	
Load Capacitance		10 to 32 or Series Resonance	pF	
Shunt Capacitance		7.0	pF Max	
Equivalent Ser Resistance (ESR)		See ESR Table	Ohms	
Drive Level		1.0	mW Max	
Insulation Resistance		500 at 100Vdc (±15Vdc)	M Ohm	

Frequency Range vs. ESR Values

Frequency Range in MHz	ESR Ohms Max	Mode of Operation
10.000 to 11.000	60	Fundamental
11.100 to 65.000	40	Fundamental
30.000 to 120.000	70	Third / Fifth Overtone
80.000 to 130.000	100	Fifth / Seventh Overtone
125.000 to 200.000	150	Seventh Overtone



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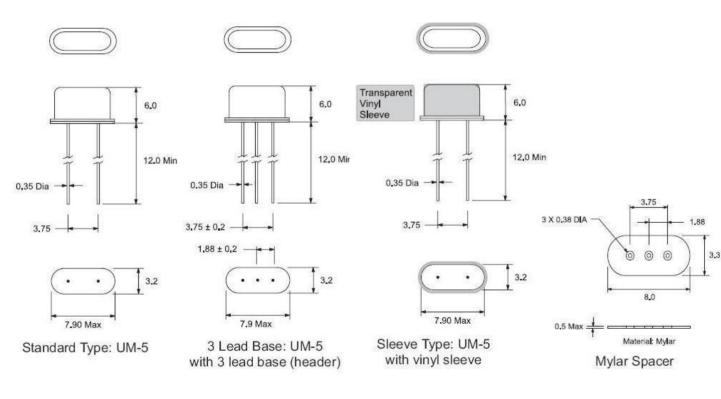
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Part Numbering System



Examples : WDC5-24.576-18 or WDC5-54.000-S-3OT-2050-EXT-P or WDC5-18.000-20-C10

Mechanical Outline



Notes:

1 – Fundamental Mode, Standard Tolerance/Stability, Standard Temperature Range and Standard Package, do not need to be included in Part Number description.

- 2 Lead Length (pre-cut) package option is available from 3 to 10mm. Bulk package only.
- 3 Product is shipped in Bulk. 1000 pieces per box, 10 plastic bags containing 100 pieces
- 4 Tape & Reel packaging is available for 1000pieces minimum
- 5 Specification subject to change without notice.

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