

Quartz Crystal Through Hole UM1 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	7.000 to 200.000			
	Fundamental	7.000 to 65.000		
Made of Occillation	Third Overtone	30.000 to 120.000	MHz	
Mode of Oscillation	Fifth Overtone	80.000 to 130.000		
	Seventh Overtone	125.000 to 200.000		
Francisco V Toloropeo et 2590	Standard	± 30	PPM Max	
Frequency Tolerance at 25°C	Optional	± 25 to ±10		
Fraguency Stability over Temperature Dance	Standard	±50		
Frequency Stability over Temperature Range	Optional	±30 to ±10		
On anating Towns and the Danie	Standard	-20 to +70		
Operating Temperature Range	Extended	-40 to +85	°C	
Storage Temperature Range	-55 to +125	1		
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
7.000 to 8.000	100	Fundamental
8.100 to 10.000	80	Fundamental
10.100 to 11.000	60	Fundamental
11.100 to 65.000	40	Fund / Third Overtone
30.000 to 120.000	70	Fund / Third Overtone
80.000 to 130.000	100	Third / Fifth Overtone
125.000 to 200.000	150	Seventh Overtone

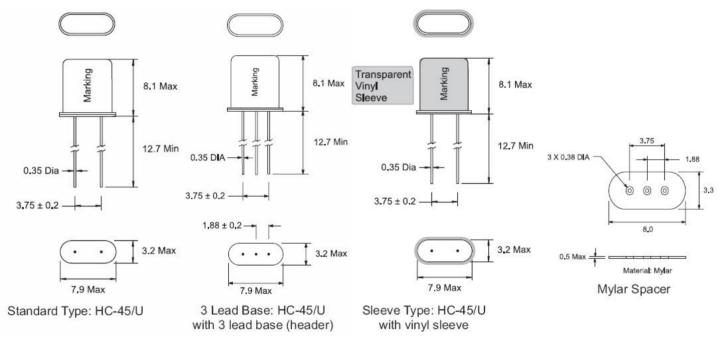


Part Numbering System

Туре		Frequency		Load Capacitance		Mode(*1)		-
WDC1 (UM1 type)	-	in MHz	-	- 10 to 32 for Parallel or S for Series			3OT – Third Overtone 5OT – Fifth Overtone OT – Seventh Overtone	
Tolerance/ Stability(*1)			Extended Temperature(*1) EXT			Package Options(*1)		
(PPM/PPM) e.g. 2030		-			-	Cx – x mm ±10% L – 3 lead header P – Mylar Spacer S – Vinyl Sleeve		

Examples: WDC1-24.576-18 or WDC1-54.000-S-3OT-2050-EXT-P or WDC1-18.000-20-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.