

Quartz Crystal Leaded Package 3.2 X 10.5mm Cylindrical Package



Features

- High frequency AT CUT crystal performance
- Small compact size
- Excellent shock
- Environmental characteristics



Electrical Specifications

Frequency Range		3.579 to 70.000	
Mode of Oscillation	Fundamental	3.579 to 32.000	MHz
	Third Overtone	32.001 to 70.000	
Frequency Tolerance at 25°C	Standard	±30	PPM Max
Frequency Stability over Temperature Range	Standard	±50	
Operating Temperature Range	Standard	-10 to +60	°C
	Extended	-40 to +85	
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		5.0	pF Max
Equivalent Ser Resistance (ESR)		See ESR Table	Ohms
Drive Level		100	uW Max
Insulation Resistance		500 at 100Vdc (±15Vdc)	M Ohm

Frequency Range vs. ESR Values

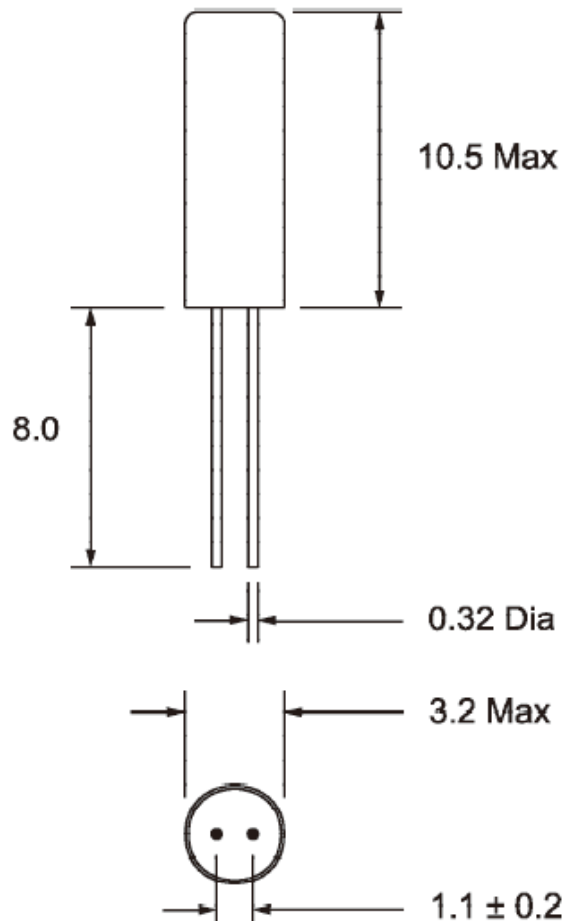
Frequency Range in MHz	ESR Ohms Max	Frequency Range in MHz	ESR Ohms Max
3.579 to 4.000	200	10.001 to 32.000	50
4.100 to 6.000	150	30.000 to 36.000	100 (Fund/ 3OT)
6.100 to 10.000	100	36.001 to 70.000	80 (3OT)

Part Numbering System

Type	Frequency	Load Capacitance	Mode(*1)	Extended Temperature(*1)
WDCS	in MHz	10 to 32 for Parallel or S for Series	3OT – Third Overtone	EXT

Examples : WDCS-4.000-18 or WDCS-40.000-S-3OT-3030-EXT

Mechanical Outline



- Notes:
- 1 - Fundamental Mode, Standard Temperature, do not need to be included in Part Number description.
 - 2 - Product is shipped in Bulk. Each bag contains 1000 pieces.
 - 3 - Specification subject to change without notice.