

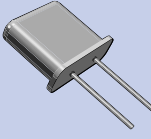
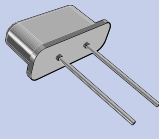
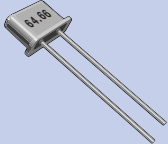



PRODUCT	ECS-3X8/2X6 ECS-1X5	ECS-31 SERIES	HC-49U	HC-49US
PRODUCT ILLUSTRATION				
FREQUENCY RANGE	32.768 KHz	20 ~ 200 KHz	1.80 ~ 200 MHz	3.57 ~ 70 MHz
FREQUENCY TOLERANCE @ +25°C	±20 PPM	±30 ~ 10,000 PPM	± 30 PPM	±30 PPM
FREQUENCY STABILITY	-0.04 PPM/°C <sup>2</sup>	-0.034 PPM/°C <sup>2</sup>	±50 PPM	±50 PPM
TEMPERATURE RANGE	-10 ~ +60°C	-10 ~ +60°C	-10 ~ +70°C	-10 ~ +70°C
FEATURES	<ul style="list-style-type: none"> <li>• Tuning Fork Crystal</li> <li>• Cost Effective</li> <li>• Long-Term Stability</li> <li>• Tight Tolerances</li> <li>• Excellent Shock and Vibration Characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Cost Effective</li> <li>• Miniature Size</li> <li>• Long-Term Stability</li> <li>• Excellent Shock and Vibration Characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Cost Effective</li> <li>• Excellent Aging</li> <li>• Tight Tolerances Available</li> <li>• Wide Frequency Range</li> <li>• Industry Standard Footprint</li> </ul>	<ul style="list-style-type: none"> <li>• Low Profile</li> <li>• Cost Effective</li> <li>• Excellent Aging</li> <li>• Wide Frequency Range</li> <li>• Excellent Reliability</li> </ul>
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PRODUCT	UM-1, UM-5 UM-4	ECS-3X10 ECS-3X9
PRODUCT ILLUSTRATION		
FREQUENCY RANGE	10 ~ 90 MHz	3.57 ~ 70 MHz
FREQUENCY TOLERANCE @ +25°C	±10 PPM	± 50 PPM
FREQUENCY STABILITY	±30 PPM	±50 PPM
TEMPERATURE RANGE	-30 ~ +80°C	-10 ~ +60°C
FEATURES	<ul style="list-style-type: none"> <li>• Miniature Package</li> <li>• Excellent Aging</li> <li>• Tight Tolerances Available</li> <li>• Wide Frequency Range</li> <li>• Industry Standard Footprint</li> </ul>	<ul style="list-style-type: none"> <li>• Cost Effective</li> <li>• Excellent Aging</li> <li>• Wide Frequency Range</li> <li>• Low Profile</li> <li>• Excellent Reliability</li> </ul>
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