



PRODUCTS

High Precision Frequency Crystal Unit (Through Hole)

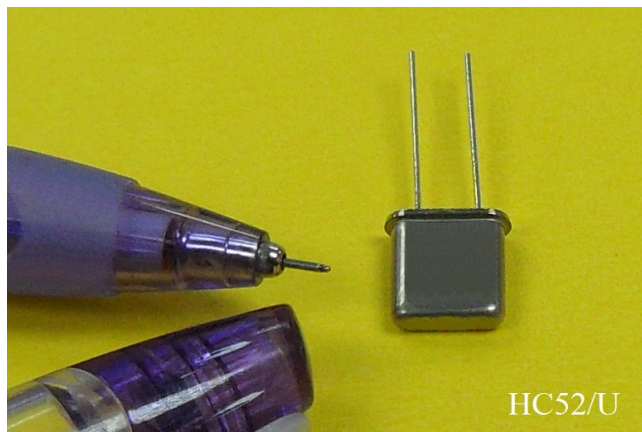
Description:

High Precision AT cut crystal for TCXO, VCXO, and OCXO

**HC-52/U
(U52 Series)**

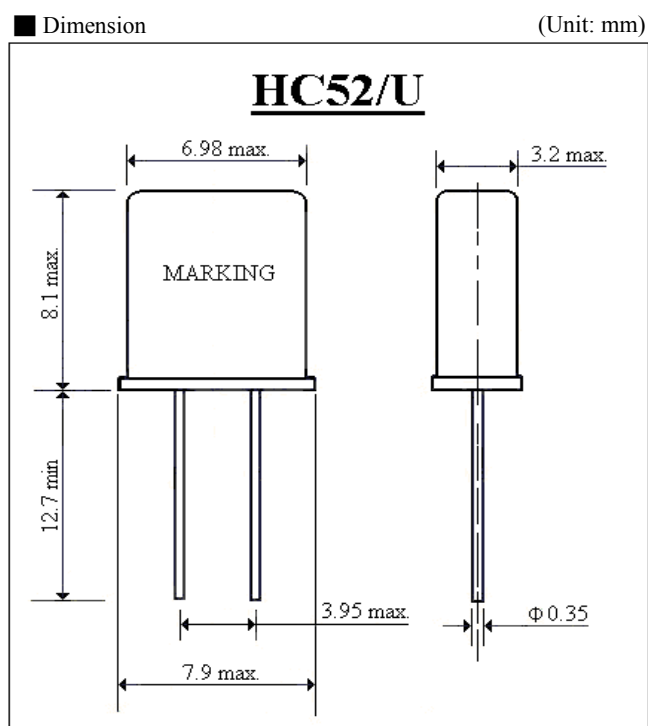
Part Number: U52-AT-Freq-CL-OT

Example: U52-AT-100.000-20-5OT



■ Specification		HC-52/U
Part No.	Example	
U52-AT-Freq-CL-OT	U52-AT-100.000-20-5OT	

Specification	HC-52/U Series
Frequency Range	6.000MHz to 200.000MHz
Mode of Oscillation	Fundamental / 3rd OT / 5th OT / 7th OT
Calibration Tolerance at 25°C	±5ppm (min.)
Temperature Stability	±5ppm to ±100ppm (standard)
Best Stability vs. Temperature Range	±5ppm @ 0°C to +50°C
	±5ppm @ -10°C to +60°C
	±10ppm @ -20°C to +70°C
	±15ppm @ -40°C to +85°C
	±30ppm @ -55°C to +125°C
Upper Turnover Temperature	+70°C to +90°C
Lower Turnover Temperature	C to C
Load Capacitance	Series to 56pF
ESR	* Refer ESR Table
Drive Level	250µW (typical)
Aging	±3ppm/year (max.)



* ESR Table

Oscillation Mode	Frequency Range (MHz)	ESR (ohms) max.
Fundamental	6.000 - 7.999	100
	8.000 - 9.999	80
	10.000 - 10.999	60
	11.000 - 15.999	40
3th Overtone	16.000 - 40.000	25
	30.000 - 44.999	50
5th Overtone	45.000 - 105.000	40
	50.000 - 170.000	90
7th Overtone	150.000 - 200.000	120

HIGH PRECISION FREQUENCY CRYSTAL