

DIP QUARTZ CRYSTAL RESONATOR

3 Pin Dip Crystal 11.4×4.8 mm HC-49U/S-3PIN

- Package Height 3.5 mm max, 2.5~3.5 mm available
- Wave Soldering Temperature: 265°C max
- highly stable and reliable crystal unit with a metallic package
- 3 Pin with ground pin

 RoHS
2002/95/

RoHS compliant

★ PARAMETERS

PARAMETERS	SPECIFICATION
Frequency Range	3.5 ~ 100MHz
Operation Mode	(3.5 ~ 40MHz) Fundamental (27 ~ 100MHz) 3rd/5rdOvertone
Loading Capacitance	20pF Std. 8 to 33pF , Series available
Drive Level	10 μ W (300 μ W Max)
Frequency Tolerance	±10ppm ~ ±30ppm (at 25°C)
Equivalent Resistance	See Below
Frequency Stability	±2.5ppm ~ ±50ppm
Operating Temp. Range:	0 ~ +50°C to -40 ~ +85°C
Storage Temp. Range:	-55 ~ +125°C

© All specification subject change without notice.

★ FREQUENCY STABILITY VS. TEMPERATURE

Operation Temperature Range	Frequency Stability					
	±2.5ppm	±5ppm	±10ppm	±20ppm	±30ppm	±50ppm
0°C~+50°C	○	○	○	●	○	○
-10°C~+60°C		○	○	●	○	○
-20°C~+70°C			○	○	●	○
-40°C~+85°C				○	○	●

● standard ○ available

★ ESR (SERIES RESISTANCE RS)

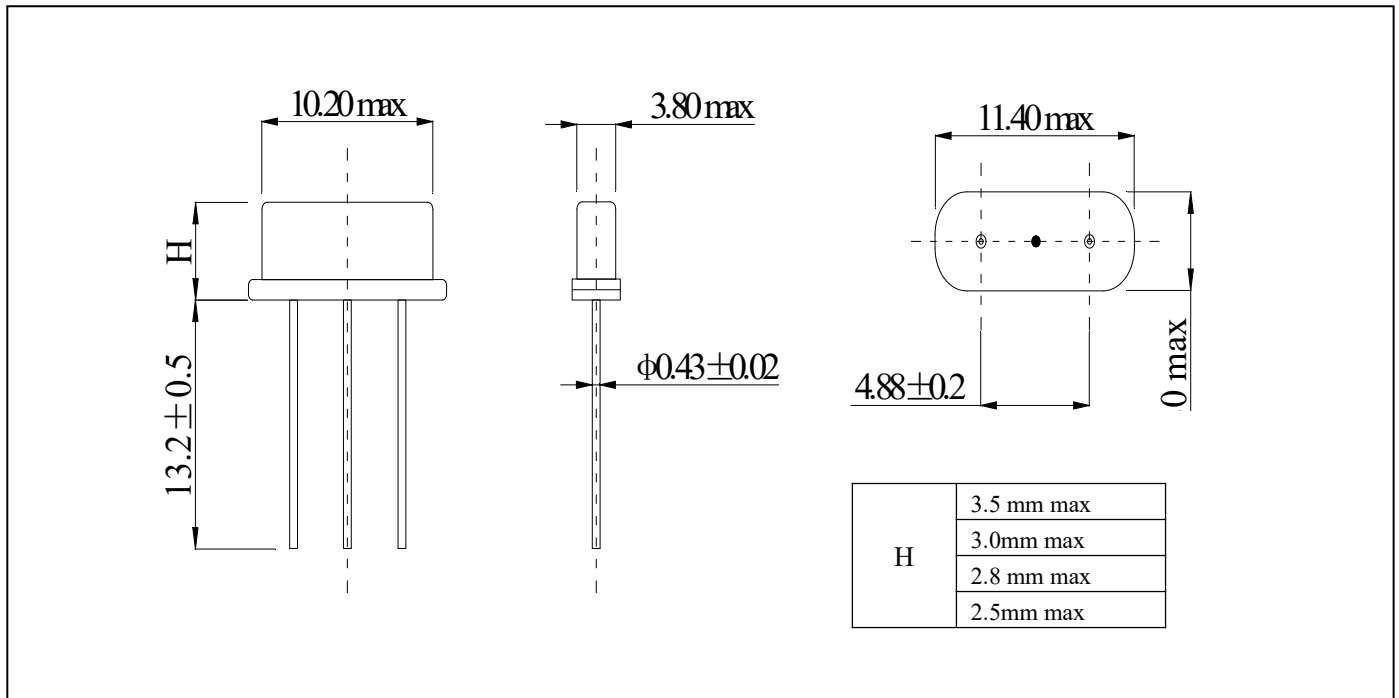
Frequency	Vibration Mode	ESR
3.5-3.999MHz	AT CUT/FUND.	150Ω(MAX)
4.000-4.499MHz	AT CUT/FUND.	120Ω(MAX)
4.500-5.999MHz	AT CUT/FUND.	100Ω(MAX)
6.000-7.999MHz	AT CUT/FUND.	80Ω(MAX)
8.000-9.999MHz	AT CUT/FUND.	60Ω(MAX)
10.000-11.999MHz	AT CUT/FUND.	50Ω(MAX)
12.000-13.999MHz	AT CUT/FUND.	40Ω(MAX)
14.000-40.000MHz	AT CUT/FUND.	30Ω(MAX)
27.000-100MHz	AT 3rd /OT	100Ω(MAX)

★ PART NUMBER GUIDE e.g. FTX16.000M20S3P-30/30B (*S3P=HC-49/S-3PIN TYPE)

Logo	Quartz Crystal Resonator	Frequency Hz	Load Capacitance pF	Package	Frequency Tolerance ppm	Frequency Stability ppm	Operating Temp. Range
FT	X	16.000M	20	S3P	30	30	B

Definition	Description
Operating Temperature Range	A: -10~+60°C
	B: -20~+70°C
	C: -30~+80°C
	D: -40~+85°C
	E: Customer specified

★ DIMENSIONS (Unit: mm)



★ WAVE SOLDERING PROFILE

