



**We are committed to the supply of all types of substrate wafers to the microelectronics industry**

## U1 Type Crystal

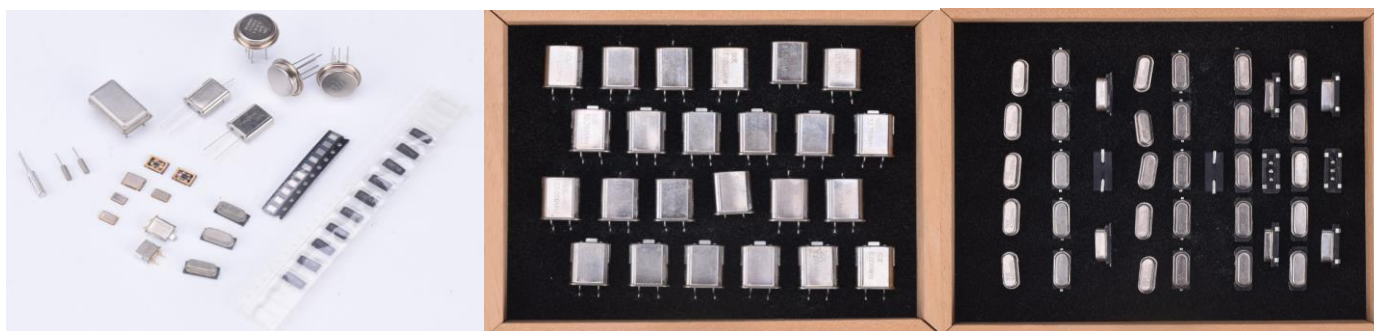
### Features

- U1 typical 11.0x4.6x13.5mm standard footprint.
- High stability and Long-term stability.
- Resistance welding for hermetical seal.
- Tight tolerance 10 ppm available.
- Lead Free and RoHS compliant



### ORDERING GUIDANCE

Product Type	Oscillation Mode	Calibration Tolerance (ppm)	Temperature Stability (ppm)	Operation Temp Range (°C)	Load Capacitance (pF)	Frequency (MHz)
Code: Meaning	Code: Meaning	Code: Meaning	Code: Meaning	Code: Meaning	Code: Meaning	
U1:	1: Fund 3: 3 <sup>rd</sup> OT 5: 5 <sup>th</sup> OT	A: ±10 B: ±15 C: ±20 D: ±30 F: ±50 G: ±5 H: ±25 XX: Special	1: ±10 2: ±15 3: ±20 4: ±30 5: ±50 6: ±100 7: ±5 8: ±3 9: ±25 00: Special	A: -10~+60 B: 0~+70 C: -20~+70 D: -40~+85 E: -55~+125 F: -10~+70 G: -40~+60 H: 0~+60 I: -20~+60 J: -40~+105 K: -40~+70 L: -40~+125	0: Series XX: CL Value In pF	XXX.XXXXXX
<b>Ordering example:</b> U1-1C4B18-20.000000MHz HC-49/U Fund ±20ppm ±30ppm/0~+70°C 18pF 20.000000MHz						
<b>Note:</b> If any other requirements are needed, they should be specified in customers' order.						



### HANGZHOU FREQCONTROL ELECTRONIC TECHNOLOGY LTD.

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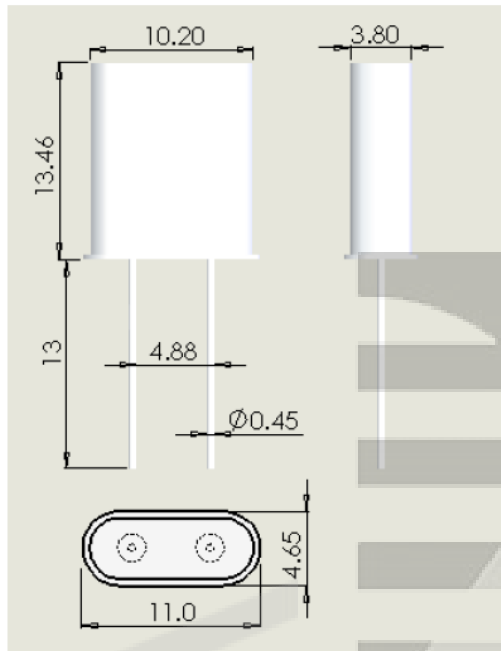
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**Electrical Specification Resistance(ESR)**

**Equivalent Series**

Storage Temp. Range	-55°C to +125°C	Frequency (MHz)	Mode	Max ESR (Ohms)
Drive Level(DL)	100uW typ., 500uW	1.800 – 1.999	Fund	750
Shunt Capacitance(C0)	7.0pF Max.	2.000 – 2.399	Fund	500
Insulation Resistance(IR)	500MΩ Min. @ 100V DC	2.400 – 3.199	Fund	300
Aging	±3ppm/year	3.200 – 4.199	Fund	100
		4.200 – 4.899	Fund	70
		4.900 – 5.999	Fund	50
		6.000 – 9.999	Fund	40
		10.000 – 15.999	Fund	30
		16.000 – 35.000	Fund	20
		20.000 – 24.999	3 <sup>rd</sup> O/T	60
		25.000 – 100.000	3 <sup>rd</sup> O/T	40
		60.000 – 79.999	5 <sup>th</sup> O/T	80
		80.000 – 150.000	5 <sup>th</sup> O/T	60



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