

HC6U, HC33U, HC48U, HC51U Series

Crystals

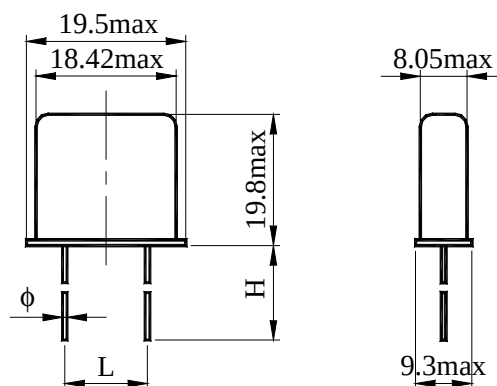
STANDARD SPECIFICATIONS

Package	HC33U	HC51U, HC48U, HC6U
Frequency Range	8 ~ 700 KHz	850KHz ~ 30 MHz
Frequency Tolerance(25 °C)	± 30 ppm Standard (see Appendix A for more details)	
Load Capacitance(C_L)	18pF Standard (see Appendix A for more details)	
Shunt Capacitance(C_0)	7.0 pF max	
Resistance of Series Resonance	See Table	
Frequency Stability over Operating Temperature	± 50 ppm Standard (see Appendix A for more details)	
Aging	±7.0 ppm/ year max	
Drive Level	0.5mW,1.0mW,2.0mW	
Operating Temperature Range	0 °C ~ +70 °C (see Appendix A for more details)	
Storage Temperature Range	-30 °C ~ +85 °C	

DIMENSIONS(Unit=mm)

EQUIVALENT SERIES RESISTANCE (E.S.R.)

Frequency Range	Max ESR	Frequency Range	Max ESR
8~25KHz	60 k Ω	1.000~1.250MHz	600 Ω
25~80KHz	25 k Ω	1.250~1.500MHz	450 Ω
80~180KHz	4 k Ω	1.500~1.750MHz	300 Ω
180~250KHz	3 k Ω	1.750~2.000MHz	200 Ω
250~300KHz	3.5 k Ω	2.000~2.500MHz	150 Ω
300~350KHz	2.8 k Ω	2.500~3.000MHz	120 Ω
350~450KHz	3 k Ω	3.000~4.000MHz	100 Ω
450~550KHz	4 k Ω	4.000~5.000MHz	70 Ω
550~600KHz	5 k Ω	5.000~7.000MHz	50 Ω
600~700KHz	5.8 k Ω	7.000~10.000MHz	40 Ω
850~900KHz	1000 Ω	10.000~30.000MHz	20 Ω
900~1000KHz	800 Ω		



Package	H	L	φ	Sealing
HC51U	20	12.34	0.76 ±0.05	Resistance
HC48U				
HC33U	20	12.3±0.3	0.76±0.05	Solder
HC6U	20	12.34±0.2	1.27±0.05	

Ordering Instructions (see Appendix A for more details)

Example: ILSI Part # = HC51U-FB1FI18-20.000

HC51U-	±30ppm(@ 25°C)	±50ppm(Over Temp)	0°C~+70°C	Fundamental	Insulator Tab	Load Cap.	Freq.
	F	B	1	F	I	18pF	-20.000MHz

ILSI America

5458 Louie Lane Reno, NV 89511 Phone: 775-851-8880 • Fax: 775-851-8882

• email: e-mail@ilsiamerica.com • www.ilsiamerica.com

Specifications subject to change without notice