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Crystals in HC-51/U and HC-48/U cases

Typical application

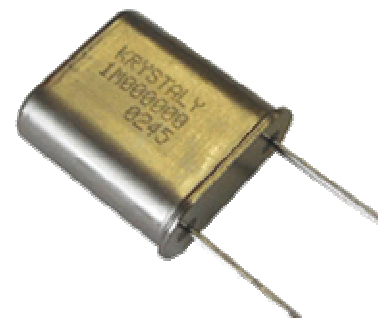
Telecommunications, radiocommunications

Features

Cases HC-51 and HC-48 series are highly reliable, hermetic sealing by resistance-weld sealing

Assembly, taping

Cases HC-51 and HC-48 series are through hole types.



Typical specifications

Type	HC-51/U, HC-48/U
Overtone	1.
Frequency range [MHz]	1-5MHz
Freq. adjustment tolerance at 25°C	$\pm 5, \pm 7, \pm 10, \pm 15, \pm 20, \pm 50 \times 10^{-6}$
Frequency stability	see table 1
Equivalent series resistance	see table 2
Aging	$\pm 1, \pm 2, \pm 3$ ppm/year
Storage temperature range	-40 ... +90 °C
Load capacitance	series resonance, $C_L = 10 \dots 50$ pF
Drive level	10 - 1000 μ W

Differences from standard values and other parameters can be consulted.

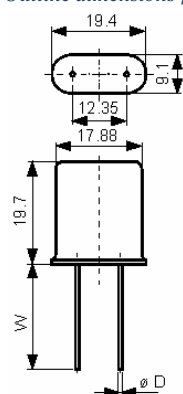
Frequency stability in temperature ranges (table 1)

Teplotní rozsah [°C]	Stabilita kmitočtu [ppm]												
	± 2	± 3	± 4	± 5	± 7	± 10	± 15	± 20	± 25	± 30	± 40	± 50	
+15 ... +35		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
+10 ... +40			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
+5 ... +45				✓	✓	✓	✓	✓	✓	✓	✓	✓	
0 ... +50					✓	✓	✓	✓	✓	✓	✓	✓	
-5 ... +55						✓	✓	✓	✓	✓	✓	✓	
-10 ... +60							✓	✓	✓	✓	✓	✓	
-15 ... +65								✓	✓	✓	✓	✓	
-20 ... +70									✓	✓	✓	✓	
-25 ... +75										✓	✓	✓	
-30 ... +80											✓	✓	
-40 ... +90												✓	
-55 ... +105													✓

Equivalent series resistance (ESR_{max}) (table 2)

Overtone	Frekvence [MHz]					
	1.0	1.5	2.0	3.0	4.0	5.0
1.	800 Ω	500 Ω	300 Ω	150 Ω	80 Ω	

Outline dimensions [mm]



	W	D
HC-51/U	13.7	0.83
HC-48/U	6.25	1.32