

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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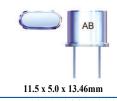




HC49/U CRYSTAL







Moisture Sensitivity Level (MSL) – This product is not Moisture Sensitive - MSL = 1

FEATURES:

- High precision availability
- Resistance welded
- Ideal for large pullability application
- Wide frequency range

APPLICATIONS:

- CPU, Memory
- Computer, printer
- Data communication (1MHz)
- Data input output machine (1MHz)

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	1.8432		160.000	MHz	
Operation Mode	Fundamental				1.8432MHz - 24.000MHz
	3 rd Overtone				24.01MHz - 66.00MHz
	5 th Overtone				66.01MHz – 122.00MHz
	7 th Overtone				122.01MHz – 160.00MHz
Operating Temperature	0		+70	°C	See options
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-50		+50	ppm	See options
Frequency Stability over the operating temperature (ref. to +25°C)	-100		+100	ppm	See options
Equivalent series resistance (R1)	See table 1 below Ω				
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	See options
Drive Level		100	1000	μW	
Aging@25°C±3°C			±5	ppm	First year
Insulation Resistance	500			ΜΩ	@100Vdc±15V
Drive level dependency (DLD), minimum 7 points tested: from 1 µW to 500 µW.	Change in fred DLD range < Change in ES range < 25% of Maximum ES	±10ppm; R (Maximun of Max ESR			

Table 1

FREQUENCY (MHz)	Operation Mode	ESR (Ω) max
1.8432-1.999		750
2.000-2.399		550
2.400-2.999	HC40/H	350
3.000-3.699		200
3.700-4.199		100
4.200-4.899	HC49/U Fundamental	70
4.900-5.999	T undamentar	50
6.000-7.999		40
8.000-9.999		35
10.000-12.499		30
12.50-50.00		25
24.00-66.00	HC49/U (3rd OT)	40
66.01-122.00	HC49/U (5th OT)	80
122.01-160.00	HC49/U (7th OT)	120

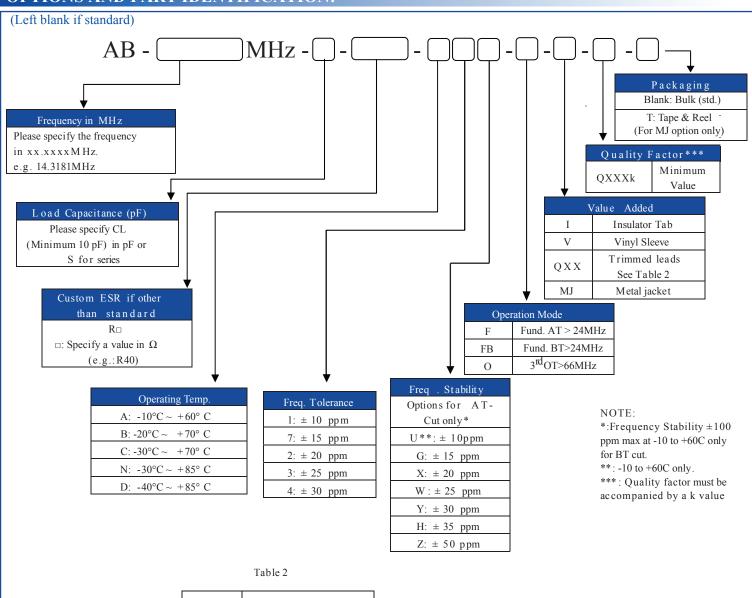


REVISED: 01.05.2017





OPTIONS AND PART IDENTIFICATION:



CODES	TRIMMED L in(mm)		
Q45	0.45 (11.43)		
Q40	0.40 (10.16)		
Q35	0.35 (8.89)		
Q30	0.30 (7.62)		
Q25	0.25 (6.35)		
Q20	0.20 (5.08)		
Q15	0.15 (3.81)		
Q10	0.10 (2.54)		
Q115	0.115 (2.92)		

NOTE: Use appropriate code numbers for other trimmed lengths not listed. (e.g. Q14 for 0.14 inch (3.55 mm))



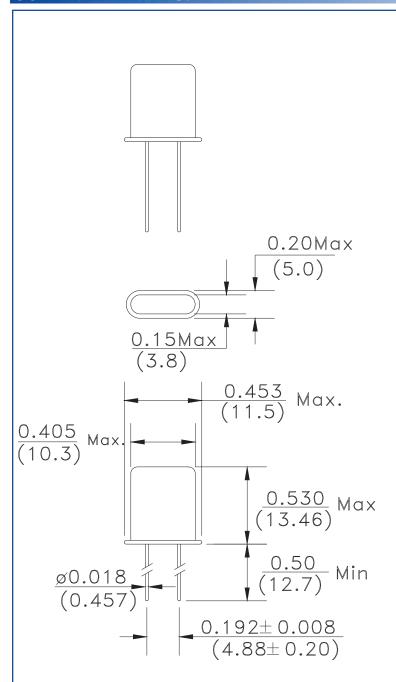
HC49/U CRYSTAL

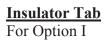


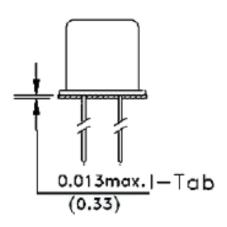




OUTLINE DRAWING:

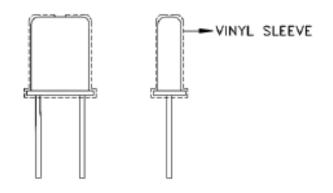






Vinyl Sleeve

For Option V



Dimensions: inch (mm)



AB

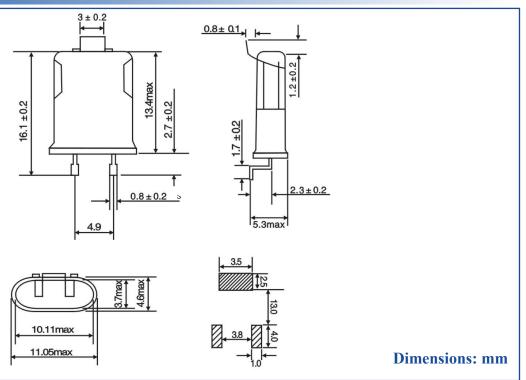
Pb RoHS/RoHS II Compliant



OUTLINE DIMENSION CONTD...

Metal Jacket Formed Leads

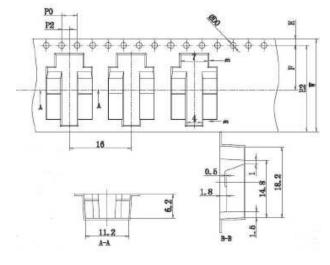
For Option MJ

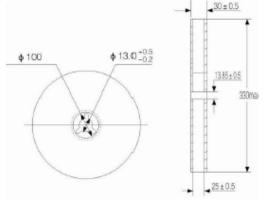


TAPE & REEL:

T: 1,000 pcs/reel

Tape and reel packaging applies only to MJ (metal jacket) option





E E2 F P2 ØD0 P0 W

1.75±0.10 22.25 MIN. 11.5±0.10 2.00±0.10 1.50±0.10 4.00±0.10 24.00±0.30

Dimensions: mm

ATTENTION: Abracon products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications.

Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon is required. Please contact Abracon for more information.

