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	
		Fundar	1.8432MHz - 24.000MHz		
Operation Mode		3 rd Ove	ertone		24.01MHz – 66.00MHz
Operation Wode		5 th Ove	ertone		66.01MHz – 122.00MHz
		7 th Ove	ertone		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.	DLD range <: Change in ESI range < 25% of	±10ppm; R (Maximun of Max ESR	ximum - Minimu n - Minimum) o value; range < Max E	ver DLD	

Table 1

FREQUENCY (MHz)	Operation Mode	ESR (Ω) max
1.8432-1.999		750
2.000-2.399		550
2.400-2.999		350
3.000-3.699		200
3.700-4.199	11040/11	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



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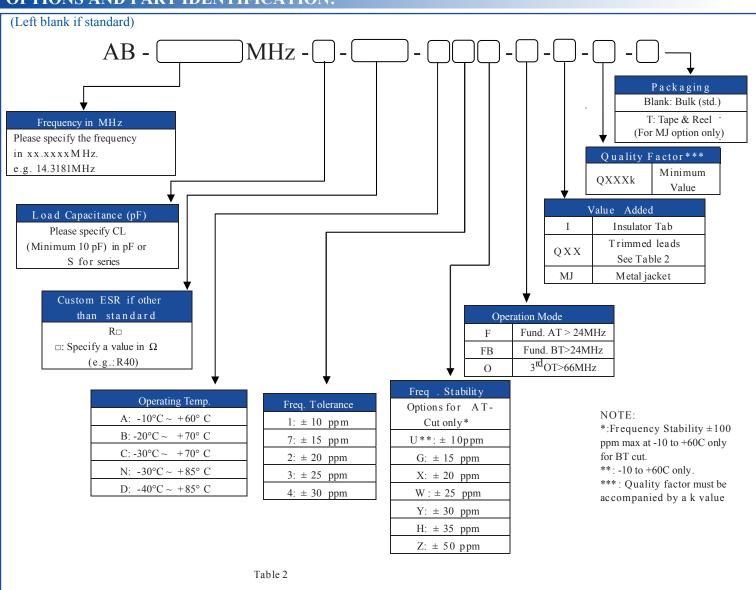
REVISED: 10.29.2018

ABRACON IS ISO9001-2015 CERTIFIED





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)

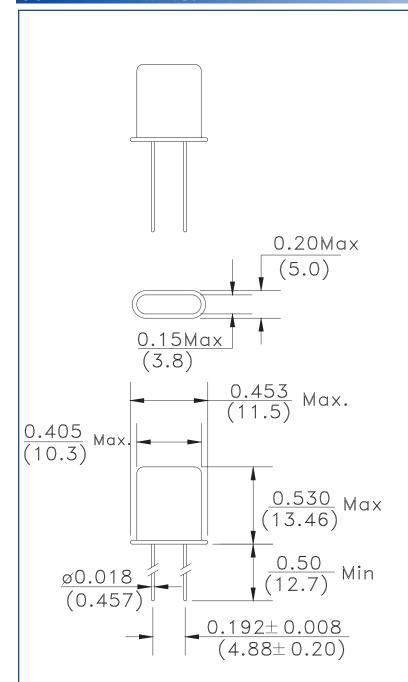
NOTE: Use appropriate code numbers for other trimmed lengths not listed. (e.g. Q14 for 0.14 inch (3.55 mm))



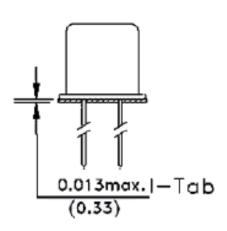




OUTLINE DRAWING:



Insulator Tab For Option I



Dimensions: inch (mm)

AB

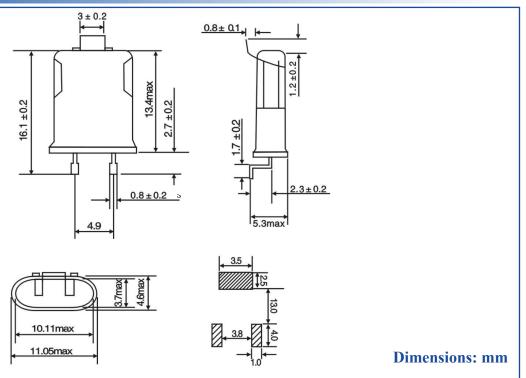
Pb RoHS/RoHS II Compliant



OUTLINE DIMENSION CONTD...

Metal Jacket Formed Leads

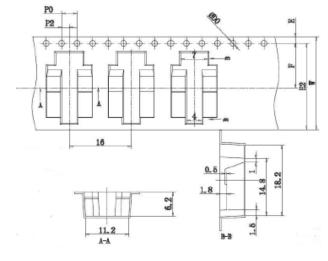
For Option MJ

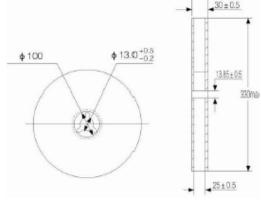


TAPE & REEL:

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±0.1	0 22.25 MIN.	11.5±0.10	2.00±0.10	1.50±0.10	4.00±0.10	24.00±0.30

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