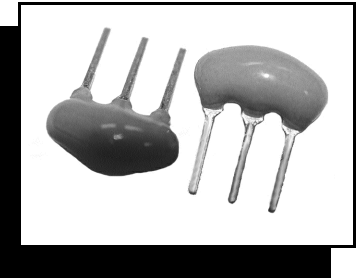


# HIGH FREQUENCY LEADED • BUILT-IN CAPACITORS CERAMIC RESONATORS ACR



## FEATURES:

- Excellent environmental resistance
- Built-in capacitors save space & components.
- Low cost timing solution.

## APPLICATIONS:

- Microprocessor clocks.
- Electric appliances.
- Remote controls.

## STANDARD SPECIFICATIONS

| Frequency Range (MHz) | Frequency Tolerance (at 25°C) | Frequency Stability (at -20°C to 80°C) | Resonant Impedance ( $\Omega$ ) max.                                                     | Operating temperature | Aging (10 yrs) | IC Tested  | Vdd |
|-----------------------|-------------------------------|----------------------------------------|------------------------------------------------------------------------------------------|-----------------------|----------------|------------|-----|
| 1.8 ~ 6.00            | $\pm 0.5\%$                   | $\pm 0.3\%$                            | 100 for $1.80 \leq F < 3.0$<br>50 for $3.0 \leq F < 3.5$<br>30 for $3.5 \leq F \leq 6.0$ | -20°C to +80°C        | $\pm 0.3\%$    | MC14069UBP | 5V  |
| 6.01 ~ 13.00          | $\pm 0.5\%$                   | $\pm 0.3\%$                            | 30                                                                                       | -20°C to +80°C        | $\pm 0.3\%$    | MC14069UBP | 12V |
| 13.01 ~ 50.00         | $\pm 0.5\%$                   | $\pm 0.3\%$                            | 40                                                                                       | -20°C to +80°C        | $\pm 0.3\%$    | TC74HCU04  | 5V  |

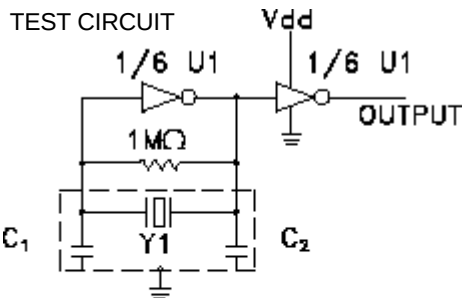
We can characterize your IC to meet exact oscillating conditions.  
Contact Abracon for details.

Environmental and mechanical specifications, see appendix C. Group 5.  
Marking, see appendix G. Recommended handling, see appendix F.  
Application notes, see appendix A.  
Ammo packing, see appendix H. (1,500 pcs/box)

## ORDERING OPTIONS

ACR - Frequency - Packaging

XX.XXX MHz - Ammo ( ammo packing )



U1: MC14069UBP  
74HCU04

Y1: RESONATOR

Built-in C1 C2: 30pF  $\pm$  20% (1.8M ~ 20.0MHz)  
15pF  $\pm$  20% (20.01M ~ 25.99MHz)  
5pF  $\pm$  20% (26.0M ~ 50MHz)

|   |        |
|---|--------|
| 1 | Input  |
| 2 | Ground |
| 3 | Output |

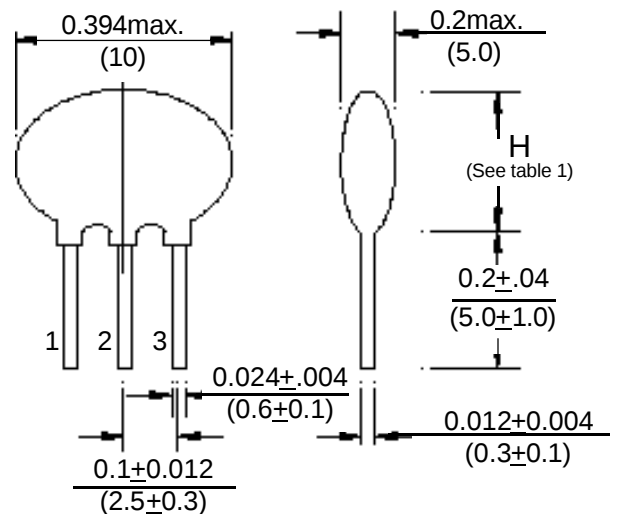


Table 1

| Freq. (MHz) | H (max.)     |
|-------------|--------------|
| 1.8 ~ 6.0   | 0.315 (8.0)  |
| 6.01 ~ 50.0 | 0.395 (10.0) |

Dimensions: Inches (mm)

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED

NOTE: Left blank if standard • All specifications and markings subject to change without notice

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