

INDUSTRIAL GRADE CERAMIC RESONATOR

AWCR-MD

Pb in ceramic
(exempt per RoHS 2002/95/EC Annex (7))

RoHS
Compliant



Size Varies

FEATURES:

- Excellent environmental resistance
- Industrial Grade
- Built-in capacitors save space & components
- Low cost timing solution
- Small size, Light weight

APPLICATIONS:

- Electric appliances
- Remote controls
- Microprocessor clocks
- Industrial controllers
- General timing

STANDARD SPECIFICATIONS:

Part Number (XX.XX denotes frequency in MHz)	Frequency Tolerance at 25°C	Frequency Stability at - 40°C to +85°C	Aging in 10 years	IC Tested	Vdd	Total
AWCR-XX.XXMD 2.000 MHz - 6.00 MHz	± 0.5%	± 0.5%	±0.2%	MC14069UBP	5V	±0.9%
AWCR-XX.XXMD 6.01 MHz - 8.00 MHz	± 0.5%	± 0.5%	±0.2%	MC14069UBP	5V	±1.2%
AWCR-XX.XXMD 8.01 MHz - 13.49 MHz	± 0.5%	± 0.5%	±0.3%	MC14069UBP	12V	±1.2%
AWCR-XX.XXMD 13.50 MHz - 50.00 MHz	± 0.5%	± 0.5%	±0.2%	TC74HCU04	5V	±1.0%

ITEM	SPECIFICATION
Storage temperature:	- 40°C to +125°C
Oscillation Frequency Range	± 0.3% max.
Capacitance Change	± 20% max.

FREQ (MHz)	H (max.)	C1=C2 (pF) ±20% built in
2.00 ~ 6.00	8.0	30.0
6.01 ~ 8.00	8.0	30.0
8.01 ~ 13.00	10.0	22.0
13.01 ~ 20.00	10.0	15.0
20.01 ~ 25.99	10.0	15.0
26.00 ~ 50.00	10.0	5.0

MARKING:

XX.XXMZY
- XX.XX (Frequency in MHz)
(First 3 digits of frequency) Ex: 4.00, 3.57, 2.44, 32.0;
Z Month (A to L); Y Year 2 for 2002

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

AWCR - XX.XXMD - CXX - Packaging

XX.XX: Freq in MHz

C Option:

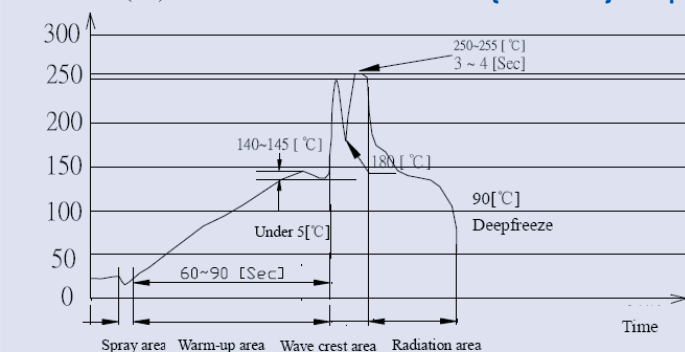
Specify Cap value in pF

Packaging option:

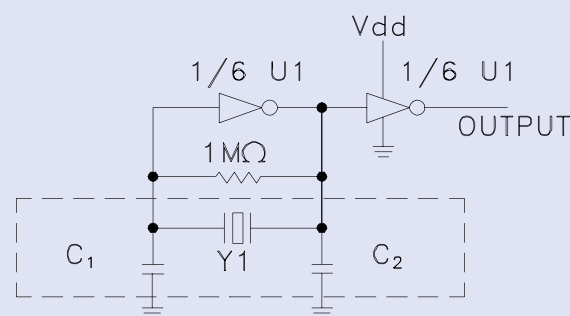
Ammo for ammo packing

WAVE PEAK SOLDER PROFILE:

Temperature (°C) **Lead free solder (standard) Temp Graph**



TEST CIRCUIT:



U1: CD4069UB

74HCU04

Y1: RESONATOR

Dimensions: inch (mm)

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30332 Esperanza, Rancho Santa Margarita, California 92688
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Size Varies

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Size Varies

Technical drawing of a mechanical part, likely a connector or plug, showing two views: a front view (left) and a side view (right).

Front View Dimensions:

- Overall width: 10.0 max.
- Overall height: H
- Three vertical slots, each with a width of 2.5 ± 0.1 .
- Slot depth: 5.0 ± 0.5 .
- Slot diameter: $\varnothing 0.5$ (3X).

Side View Dimensions:

- Overall width: 5.0

Labels:

- (1) (2) (3) are labels for the three vertical slots.

Dimensions: mm

pin	function
1	Input/Output
2	Ground
3	Output/Input

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2.00 ~ 6.00	8.0	30.0
6.01 ~ 8.00	8.0	30.0
8.01 ~ 13.00	10.0	22.0
13.01 ~ 20.00	10.0	15.0
20.01~25.99	10.0	15.0
26.00~50.00	10.0	5.0

Technical drawing of a mechanical part with dimensions in mm. The drawing includes a top view and a side view. The top view shows a rectangular part with two circular features. Dimensions include overall width 12.7 ± 1.0 , distance between features 6.35 ± 0.7 , and feature diameter $\phi 4.0 \pm 0.2$. The side view shows a total height of 25.0 max. , a base thickness of 18.0 ± 0.5 , and a central feature height of 9.0 ± 0.5 . A detail view of a hole shows a diameter of $\phi 0.5 \pm 0.1$ and a depth of $0.0 \pm 2^\circ$. The text "Dimensions: mm" is present at the bottom.