

See table 1

HIGH FREQUENCY, LEADED, INDUSTRIAL GRADE WASHABLE CERAMIC RESONATORS HWZT Series

FEATURES:

- Low resonant impedance.
- High stability washable type.
- Small size, Light weight.
- Excellent environmental resistance.
- Low cost timing solution.

APPLICATIONS:

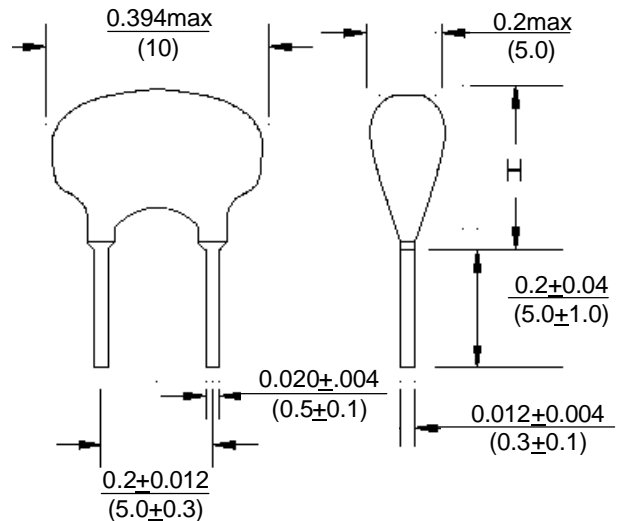
- Remote control systems in vehicles.
- Industrial controllers.
- Electric appliances.
- Clock oscillation for microcontrollers.
- Household electric appliances.
- Automotive controllers.

STANDARD SPECIFICATIONS

Frequency Range (MHz)	Frequency Tolerance (at 25°C)	Frequency Stability (at -20°C to 80°C)	Resonant Impedance (Ω) max.	Operating temperature	Aging (10 yrs)	IC Tested	Vdd
1.8 ~ 6.00	±0.5%	±0.3%	100 for 1.80 ≤ F < 3.0 50 for 3.0 ≤ F < 3.5 30 for 3.5 ≤ F ≤ 6.0	See table 2	±0.3%	MC14069UBP	5V
6.01 ~ 13.00	±0.5%	±0.3%	30	See table 2	±0.3%	MC14069UBP	12V
13.01 ~ 50.00	±0.5%	±0.3%	40	See table 2	±0.3%	TC74HCU04	5V

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

Storage temperature: -40°C to +125°C
Packaging: Bulk: Plastic packing 500pcs. See appendix H.
Ammo pack (Taping): carton box packing: 1,500pcs. See appendix H
Environmental and mechanical specification, see appendix C. Group 6.
Marking, see appendix G. Application notes, see appendix A.
Recommended handling, see appendix F.



ORDERING OPTIONS

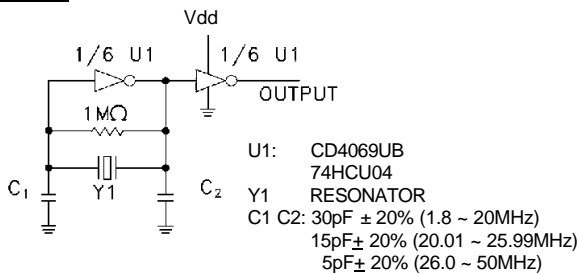
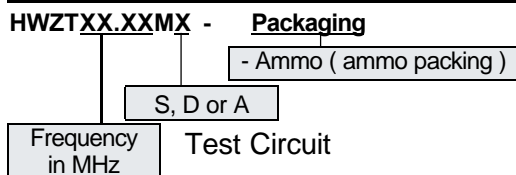


Table 1

Freq. (MHz)	H (max.)
1.8 ~ 13.0	0.295 (7.5)
13.01 ~ 23.99	0.395 (10)
24.0 ~ 50.0	0.295 (7.5)

Table 2

Series	Operating temperature
MS	-20°C to +80°C
MD	-40°C to +85°C
MA	-40°C to +125°C

(Freq.stability ~ ± 0.5% typ.)
(Freq.stability ~ ± 0.7% typ.)

Dimensions: Inches (mm)

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

Washability Specification

**This product can be washed using the following solvents
under the suggested conditions:**

Solvents:
HCFC, Isopropyl Alcohol, Trichloroethane, Tap water, Demineralized Water, Pine Alpha ST-100S
Ultrasonic Wash:
Less than 1 min. (Frequency:28KHz,Ouput:20W/L) Immersion Wash or others: Less than 5 min.
Solvents temperature should be at 60°C or under 60°C
Drying:
By air blow at 80°C max.