

10 x 5 x 10 mm

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

FEATURES:

- Industrial grade.
- High stability washable type.
- Small size, Light weight.
- Excellent environmental resistance.

APPLICATIONS:

- Remote control systems in vehicles.
- Telephones.
- Industrial electric appliances.
- Clock oscillation for microcontrollers.
- Household electric appliances.

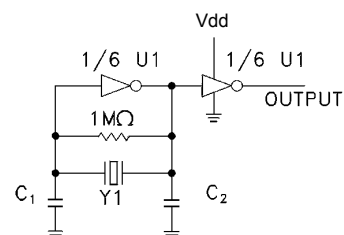
STANDARD SPECIFICATIONS HWZT_MS SERIES

Frequency Range (MHz)	Frequency Tolerance (at 25°C)*	Frequency Stability (at -20°C to 80°C)*	Aging* (10 yrs)	IC Tested	Vdd
2.00 ~ 6.00	±0.5%	±0.2%	±0.2%	MC14069UBP	5V
6.01 ~ 8.00	±0.5%	±0.5%	±0.2%		
8.01 ~ 13.49	±0.5%	±0.5%	±0.5%		12V
13.50 ~ 50.00	±0.5%	±0.3%	±0.2%	TC74HCU04	5V

STANDARD SPECIFICATIONS HWZT_MA SERIES

Frequency Range (MHz)	Frequency Tolerance (at 25°C)*	Frequency Stability (at -40°C to 125°C)*	Aging* (10 yrs)	IC Tested	Vdd
2.00 ~ 6.00	±0.5%	±0.3%	±0.3%	MC14069UBP	5V
6.01 ~ 8.00	±0.5%	±0.7%	±0.3%		
8.01 ~ 13.49	±0.5%	±0.9%	±0.5%		12V
13.50 ~ 50.00	±0.5%	±0.3%	±0.2%	TC74HCU04	5V

Test Circuit



U1: CD4069UB
74HCU04
Y1: RESONATOR
C1 C2: 30pF ± 20%

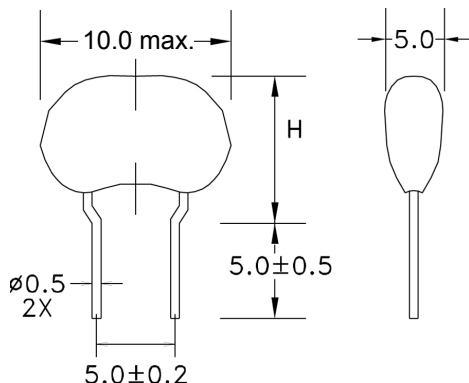
We can characterize your IC to meet exact oscillating conditions. Contact Abracon for details.

* SEE OPTIONS

ORDERING OPTIONS

HWZTXX.XXMXX	- CXX	- I0XX	- S0XX	- A0XX	- Packaging
Freq. In MHz	S or A	0XX: % Freq. Tolerance	0XX: % Freq. Stability	0XX: % Aging	- Ammo (Ammo pack)
	XX Cap Value				

ex: HWZT2.44MA - C05 - I015 - S03 - A01T (C1 = C2 = 5pF ±0.15% of tolerance ±0.3% of stability ±0.1% of aging)



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.

Freq. (MHz)	H (max.)
2.00 ~ 6.00	8.0
6.01 ~ 8.00	8.0
8.01 ~ 13.49	10.0
13.50 ~ 50.00	10.0

Dimensions: mm

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



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CERTIFIED