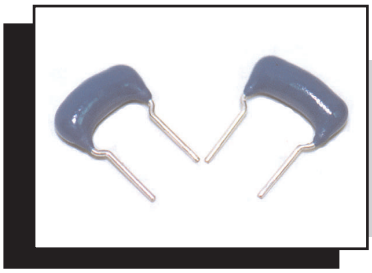


HIGH FREQUENCY, LEADED, WASHABLE INDUSTRIAL GRADE

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

Series	Frequency Range (MHz)	Frequency Tolerance (% at 25°C)	Stability (% at -40°C to 125°C)	Aging (10 yrs)	Total
HWZTX.XXM	2.00 ~ 6.00	±0.5% (see options)	±0.3% (see options)	±0.3% (see options)	±1.0%
HWZTX.XXM	6.01 ~ 8.00	±0.5% (see options)	±0.7% (see options)	±0.3% (see options)	±1.5%
HWZTX.XXM	8.01 ~ 13.49	±0.5% (see options)	±0.9% (see options)	±0.5% (see options)	±1.9%
HWZTX.XXM	13.50 ~ 50.00	±0.5% (see options)	±0.3% (see options)	±0.2% (see options)	±1.0%

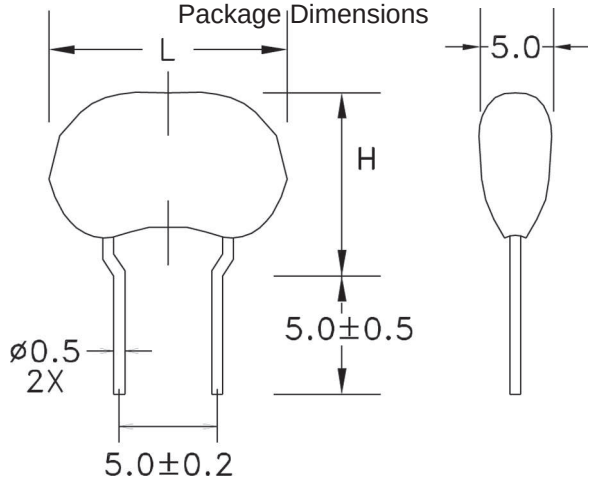
Operating temperature: -40°C to 125°C
Storage temperature: -40°C to 125°C
(*) Stability vs. temperature: ±0.3% @ -20°C to +80°C
Packaging: Bullk: Plastic packing 500pcs.
Ammo pack (Taping): carton box packing: 1,500pcs.
We perform IC characterization to match your application.
Environmental and mechanical specification, Group 5A.

ORDERING OPTIONS

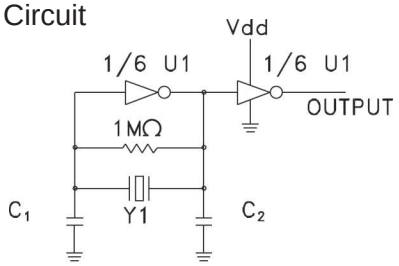
HWZT - Frequency - CXX - I0XX - S0XX - A0XX - Packaging

- XX Cap Value
- 0XX: % Freq. Tolerance (**)
- 0XX: % Freq. Stability (**)
- 0XX: % Aging (**)
- - Ammo (Ammo pack)

Package Dimensions



Test Circuit



U1: CD4069UB
74HCU04 (>8MHz)
Y1: RESONATOR
C_1 C_2 : 30pF ± 20%

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

ex: HWZT - 2.44MHz - C05 - I015 - S03 - A01T

C1 = C2 = 5pF
±0.15% of tolerance
±0.3% of stability
±0.1% of aging

Dimensions: mm

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

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