

INDUSTRIAL GRADE CERAMIC RESONATOR



HWZT-MA

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

RoHS
Compliant

FEATURES:

- Excellent environmental resistance
- Industrial Grade
- Low resonant impedance
- Low cost timing solution
- Small size, Light weight

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	HWZT-MA
Operating Temperature:	-25°C to +85°C
Storage Temperature:	-55°C to +85°C
Withstanding Voltage:	50 V (DC , 1 min)
Insulation Resistance:	100MΩ min (10V , 1 min)
Rating Voltage	6V DC 15V p-p
Freq. Tolerance @ 25°C:	± 0.5% max.
Freq. Stability over the Operating Temperature:	± 0.3% max.
Resonant Impedance:	See Table 2.1
Load Capacitance CL:	See Table 2.2
Aging in 10 Years:	± 0.3% max.

Table 2.1

Part Number (XX.XX denotes freq. in MHz)	Resonant Impedance (Ω) max
1.79 ~ 2.99	80
3.00 ~ 3.49	50
3.50 ~ 8.0	30
8.01 ~ 13.00	25
13.01 ~ 50.00	30

Table 2.2

Freq (MHz)	C1=C2 pf (±20%)
1.79 ~ 20.00	30
20.01 ~ 25.99	15
26.00 ~ 50.00	5

Frequency (MHz)	H (max.)
1.80 ~ 6.00	7.5
6.01 ~ 13.00	10.0
13.01 ~ 23.99	10.0
24.00 ~ 31.99	7.5
32.00~50.00	6.5

OPTIONS & PART IDENTIFICATION:

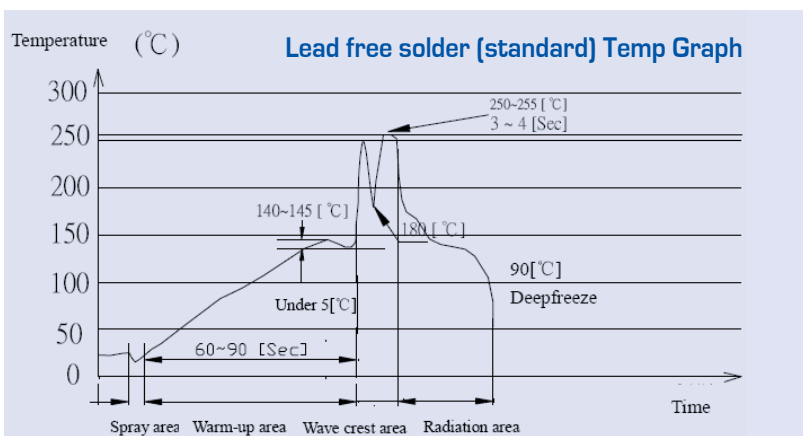
(Left blank if standard)

HWZT - Frequency MA - C -

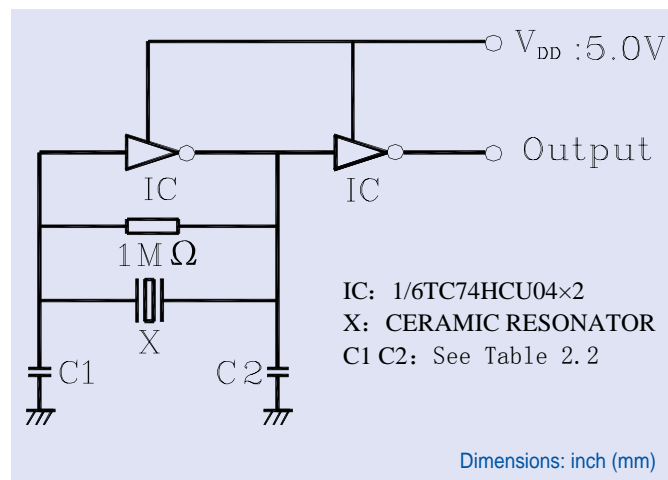
Load Capacitance
Please specify CL in pF

Packaging
A ammo packing

WAVE PEAK SOLDER PROFILE:



TEST CIRCUIT:



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 07.16.07**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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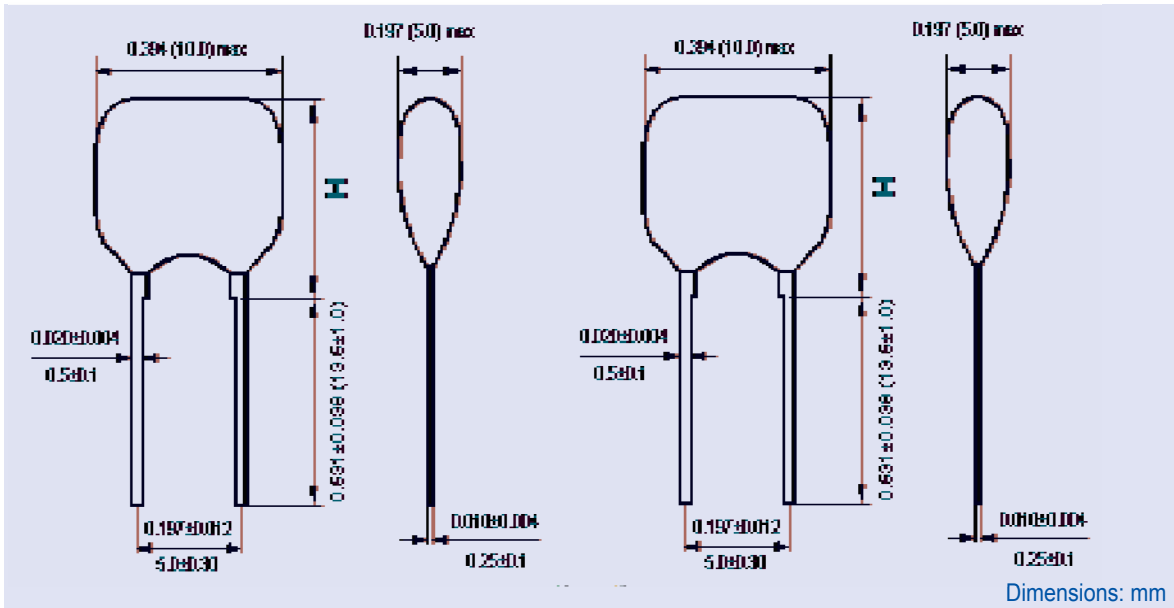
Size Varies

HWZT-MA

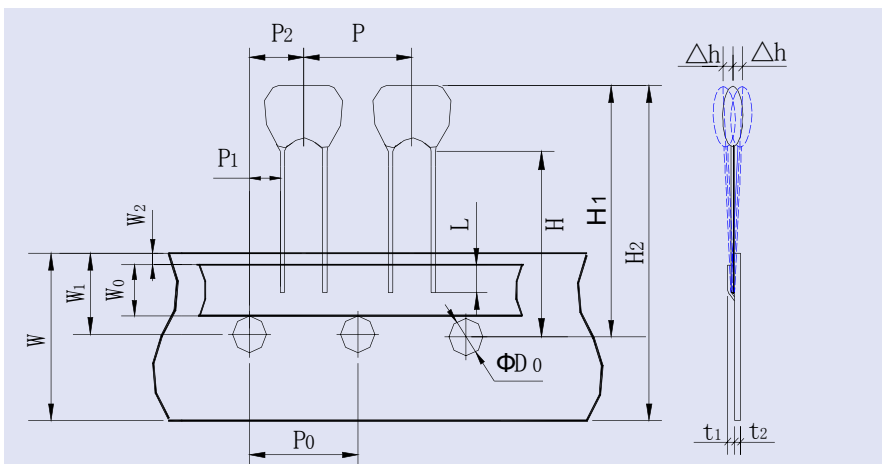
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OUTLINE DRAWING:



TAPE & REEL: T = Tape and reel 1,000pcs/reel



Mark	Size(mm)
P	12.7±0.5
P ₀	12.7±0.2
P ₁	3.85±0.5
P ₂	6.35±1.3 (include the slant of product)
W ₀	6.0±0.5
W ₁	9.0±0.5
W _{2 max}	1.0
W	18.0±0.5
H	18.0 ^{+0.5} _{-1.0}
H _{1 max}	27.0
H _{2 max}	36.0
L min	3.0
ΦD ₀	4.0±0.2
t ₁	0.6±0.2
t _{2 max}	1.5
Δh max	1.0

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