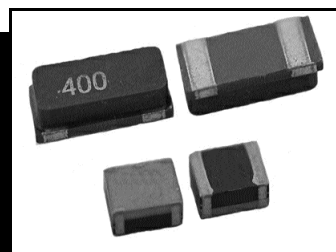


HIGH FREQUENCY, WITHOUT BUILT-IN CAPACITORS SMD WASHABLE CERAMIC RESONATORS AWSZT



7434, 4741, 3731, 2520

FEATURES:

- Low resonant impedance.
- Excellent environmental resistance.
- Reflow capable.
- High stability washable type.
- Industrial grade.

APPLICATIONS:

- Remote controls.
- Electric appliances.
- Mobile phones, DVD, CD-Rom.
- Microprocessor clocks.
- Automotive controllers.
- Industrial controllers.

STANDARD SPECIFICATIONS

Abracon P/N	Freq. range (MHz)	Resonant Impedance Ω max.	Frequency tolerance	Frequency stability @ -20°C to +80°C	Aging in 10 years	Operating temperature	Package Style*
AWSZT [] MGS	2.0~7.99	100 Ω for $2.0 < F < 3.0$ MHz	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	7434
MGD		50 Ω for $3.0 \leq F < 3.5$ MHz				-40°C to +85°C	
MGA		30 Ω for $3.5 \leq F \leq 7.99$ MHz				-40°C to +125°C	
AWSZT [] MTS	8.0~13.0	25 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	4741
MTD						-40°C to +85°C	
MTA						-40°C to +125°C	
AWSZT [] MVS	8.0~13.0	25 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	3731
MVD						-40°C to +85°C	
MVA						-40°C to +125°C	
AWSZT [] MXS	13.01~50.0	40 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	4741
MXD						-40°C to +85°C	
MXA						-40°C to +125°C	
AWSZT [] MCS	13.01~50.0	40 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	3731
MCD						-40°C to +85°C	
MCA						-40°C to +125°C	
AWSZT [] MSS	20.0~50.0	40 Ω For ≤ 32 MHz	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	-20°C to +80°C	2520
MSD		50 Ω For ≤ 40 MHz				-40°C to +85°C	
MSA		60 Ω For ≤ 50 MHz				-40°C to +125°C	

*Please see package options and dimensions on page 35A

Please check for availability on M[]D and M[]A Series

Frequency stability: M[]D: $\pm 0.5\%$ typ. -40°C to +85°C

M[]A: $\pm 0.7\%$ typ. -40°C to +125°C

Storage temperature: -40°C to +125°C

We perform IC characterization to match your application.

Please call us for details.

Packaging: Option Tape and Reel (1,000 pcs.) see appendix H.

Marking, see appendix G. Application notes, see appendix A.

Environmental and mechanical specification, see appendix C. Group 6.

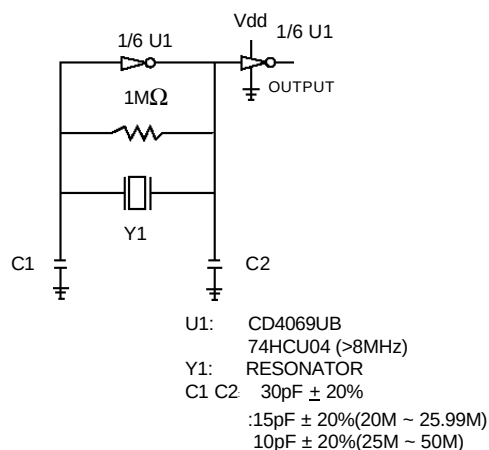
Recommended handling, see appendix F.

ORDERING OPTIONS

AWSZTMXX - Packaging

G, T, V, X, C or S - T (Tape and reel)
S, D or A

Test Circuit:



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

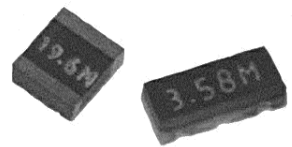
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01/2003

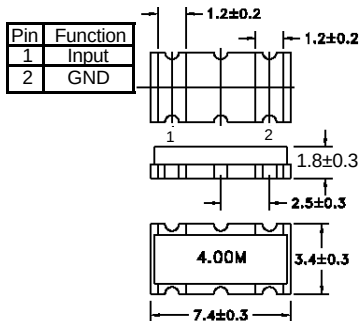
HIGH FREQUENCY, WITH OR WITHOUT BUILT-IN CAPACITORS SURFACE MOUNT CERAMIC RESONATORS ASZT, ASCR, AWSZT, AWSCR



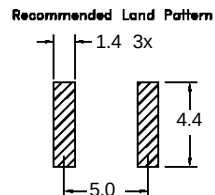
7.4 x 3.4 x 1.8 mm

ASZT or AWSZT

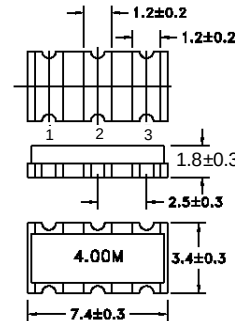
ASCR or AWSCR



7434

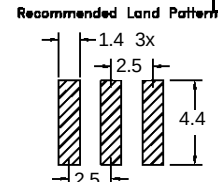


Dimensions: mm

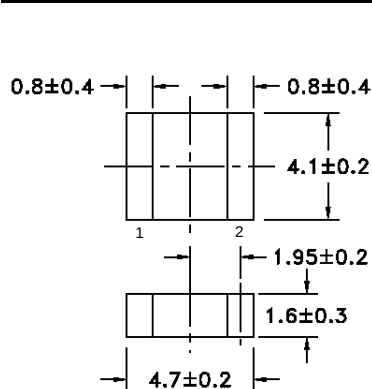


7434

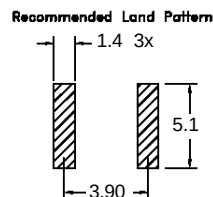
Pin	Function
1	Input
2	GND
3	Output



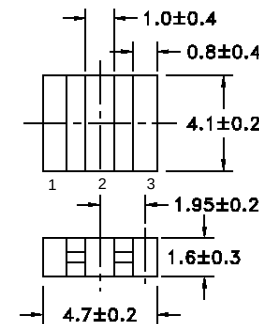
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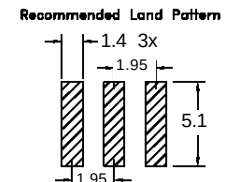
4741



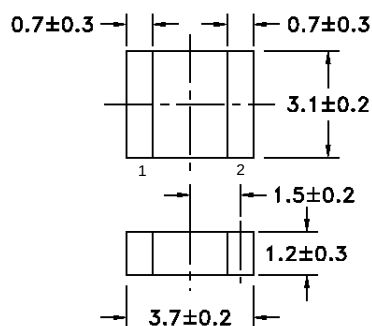
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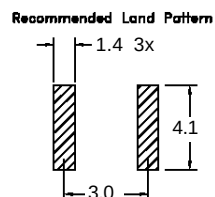
7441



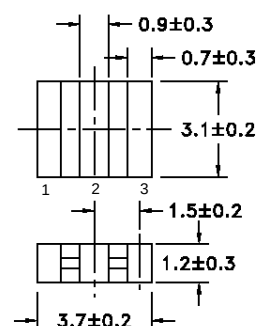
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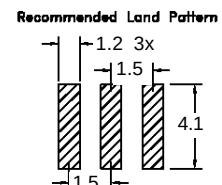
3731



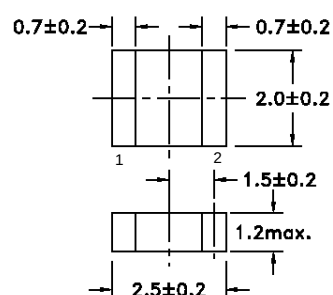
Dimensions: mm



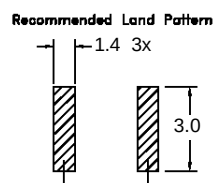
3731



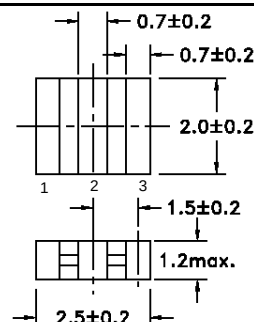
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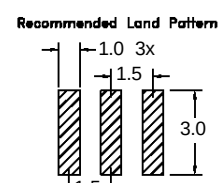
2520



Dimensions: mm



2520



Dimensions: mm

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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.