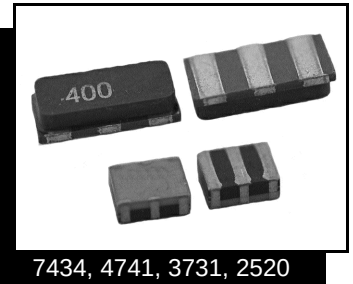


HIGH FREQUENCY, WITH OR WITHOUT BUILT-IN CAPACITORS SURFACE MOUNT CERAMIC RESONATORS ASZT and ASCR



7434, 4741, 3731, 2520

FEATURES:

- Low resonant impedance.
- Built-in load capacitance (ASCR)
- Reflow capable.
- Low cost.
- Excellent environmental resistance.

APPLICATIONS:

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

STANDARD SPECIFICATIONS

Abracon P/N	Freq. range (MHz)	Resonant Impedance Ω max.	Frequency tolerance	Frequency stability	Aging in 10 years	Built-in capacitance	Package Style
ASZT [] MGC	2.0~7.99	100 Ω for $2.0 < F < 3.0$ MHz 50 Ω for $3.0 \leq F < 3.5$ MHz	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	NA	7434
ASCR [] MGC	2.0~7.99	30 Ω for $3.5 \leq F \leq 7.99$ MHz	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	30pF	7434
ASZT [] MTS	8.0~13.0	25 Ω	$\pm 0.5\%$	$\pm 0.4\%$	$\pm 0.3\%$	NA	4741
ASCR [] MTS	8.0~13.0		$\pm 0.5\%$	$\pm 0.4\%$	$\pm 0.3\%$	30pF	4741
ASZT [] MTV	8.0~13.0	25 Ω	$\pm 0.5\%$	$\pm 0.4\%$	$\pm 0.3\%$	NA	3731
ASCR [] MTV	8.0~13.0		$\pm 0.5\%$	$\pm 0.4\%$	$\pm 0.3\%$	15pF	3731
ASZT [] MXS	13.01~50.0	40 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	NA	4741
ASCR [] MXS	13.01~50.0		$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	15pF (F up to 25.99MHz) 10pF (25M ~ 50M)	4741
ASZT [] MXV	13.01~50.0	40 Ω	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	NA	3731
ASCR [] MXV	13.01~50.0		$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	10pF	3731
ASZT [] MSS	20.0~50.0	40 Ω For ≤ 32 MHZ 50 Ω For ≤ 40 MHZ 60 Ω For ≤ 50 MHZ	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	NA	2520
ASCR [] MSS	20.0~50.0		$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	8pF	2520

Please see package options and dimensions on next page

Operating temperature: -20°C to +80°C
Storage temperature: -40°C to +85°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.

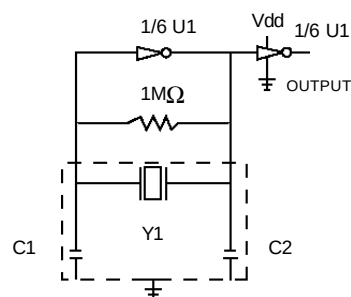
Environmental and mechanical specification, see appendix C. Group 5.

Recommended handling, see appendix F.

ORDERING OPTIONS

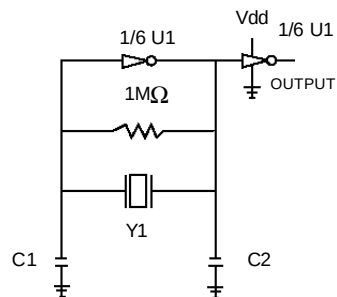
ASZT or ASCR [XX.XX]MXX - Packaging
[G, T, S or X] -T (Tape and reel)
Frequency in MHz [C, S, or V]

Test Circuit: ASCR



U1: CD4069UB
74HCU04
Y1: RESONATOR
C1 C2 (Built-in)

Test Circuit: ASZT



U1: CD4069UB
74HCU04 (>8MHz)
Y1: RESONATOR
C1 C2 30pF $\pm 20\%$
15pF $\pm 20\%$ (20M ~ 25.99M)
10pF $\pm 20\%$ (25M ~ 50M)

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

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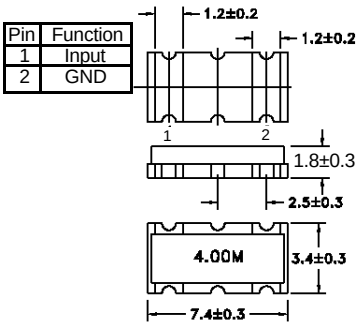
35
Rev. B
01/2003

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



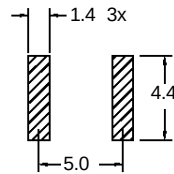
ASZT or AWSZT

ASCR or AWSCR

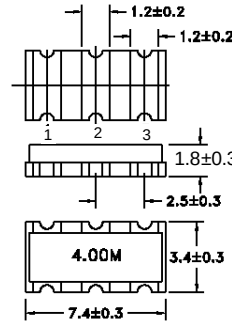


7434

Recommended Land Pattern

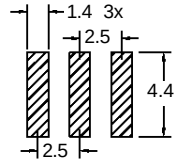


Dimensions: mm



7434

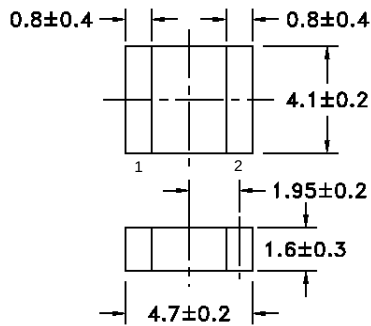
Recommended Land Pattern



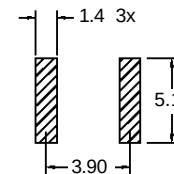
Dimensions: mm

Pin	Function
1	Input
2	GND
3	Output

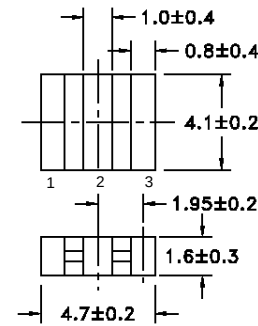
4741



Recommended Land Pattern

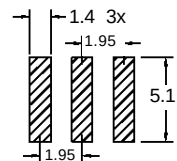


Dimensions: mm



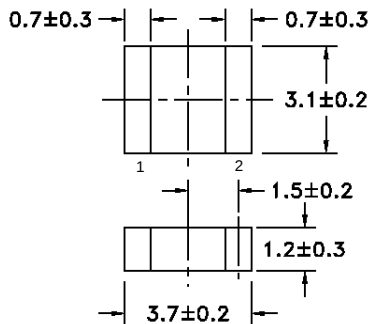
7441

Recommended Land Pattern

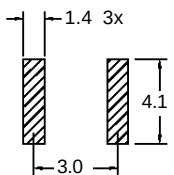


Dimensions: mm

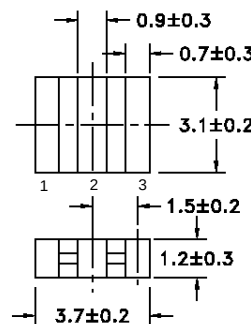
3731



Recommended Land Pattern

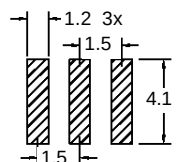


Dimensions: mm



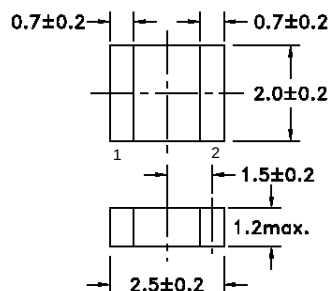
3731

Recommended Land Pattern

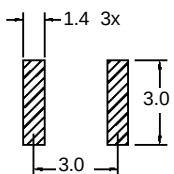


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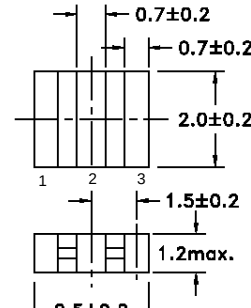
2520



Recommended Land Pattern

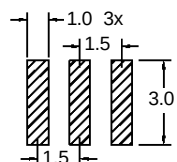


Dimensions: mm



2520

Recommended Land Pattern



Dimensions: mm

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