

7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MGD



7.4 x 3.4 x 1.8mm

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

RoHS
Compliant

FEATURES:

- Low resonant impedance
- Built-in load capacitors
- Suitable for RoHS compliant reflow
- Low cost solution for cost sensitive applications

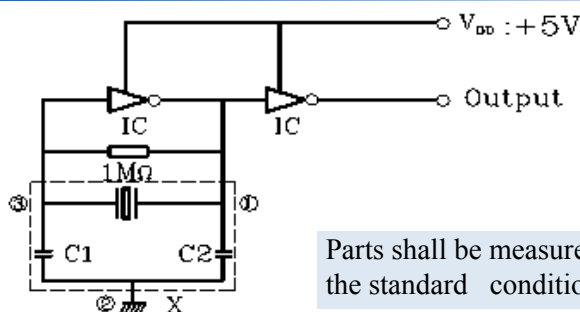
APPLICATIONS:

- Remote controls, Microprocessor clocks, DVD & CD-ROMs, Electric appliances
- Consumer electronics

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	1.84	-----	8	MHz	
Resonant Impedance (Ro)	-----	100	-----	Ω	1.84 MHz - 2.39 MHz
	-----	100	-----		2.40 MHz - 2.99 MHz
	-----	50	-----		3.00 MHz - 3.49 MHz
	-----	30	-----		3.50 MHz - 8.00 MHz
Standard Built-in Capacitance (C1=C2)	33 - 20%	33	33 + 20%	pF	1.84 MHz - 2.39 MHz
	22 - 20%	22	22 + 20%		2.40 MHz - 2.99 MHz
					3.00 MHz - 3.49 MHz
					3.50 MHz - 8.00 MHz
Frequency Tolerance	-0.5	-----	0.5	%	
Frequency Stability	-0.3	-----	0.3	%	-25°C to +85°C
Withstanding Voltage	-----	50	-----	V	DC , 1 min
Rating Voltage	(1) D.C. Voltage	-----	6	V	
	(2) A.C. Voltage	-----	15	Vp-p.	
Insulation Resistance	100	-----	-----	MΩ	10V, 1min
Operation Temperature	-25	-----	85	°C	
Storage Temperature	-55	-----	85	°C	
Aging Rate (Fosc) (10 years)	-0.3	-----	0.3	%	

TEST CIRCUIT:



X: Ceramic Resonator

1. Input
2. Ground
3. Output

Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

AWSCR - X.XXMGD - C□□ - □

Frequency
Frequency in MHz

Load Capacitance
Contact ABRACON
for Built-in
Capacitance options

Packaging
T: 1000pcs/Reel
T4: 4000pcs/Reel

ABRACON IS
ISO9001:2008
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale
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Revised: 04.07.11

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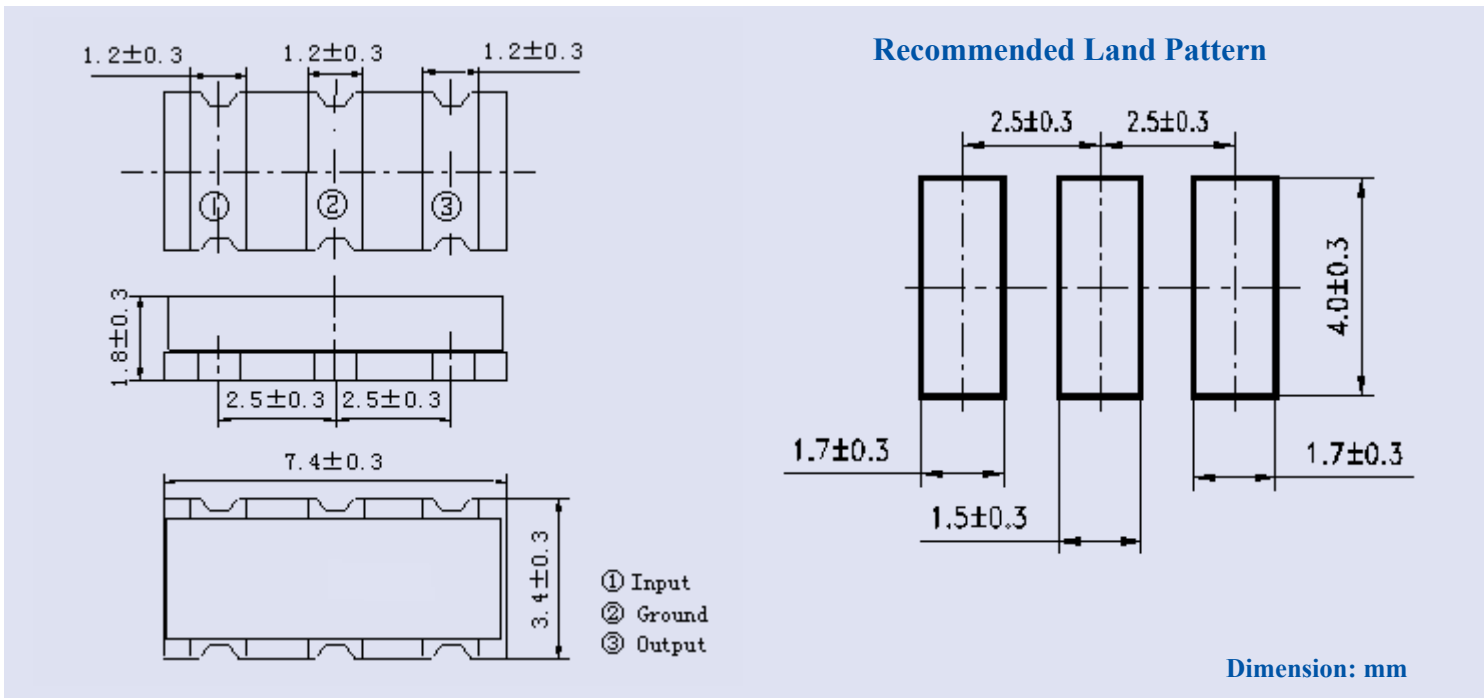
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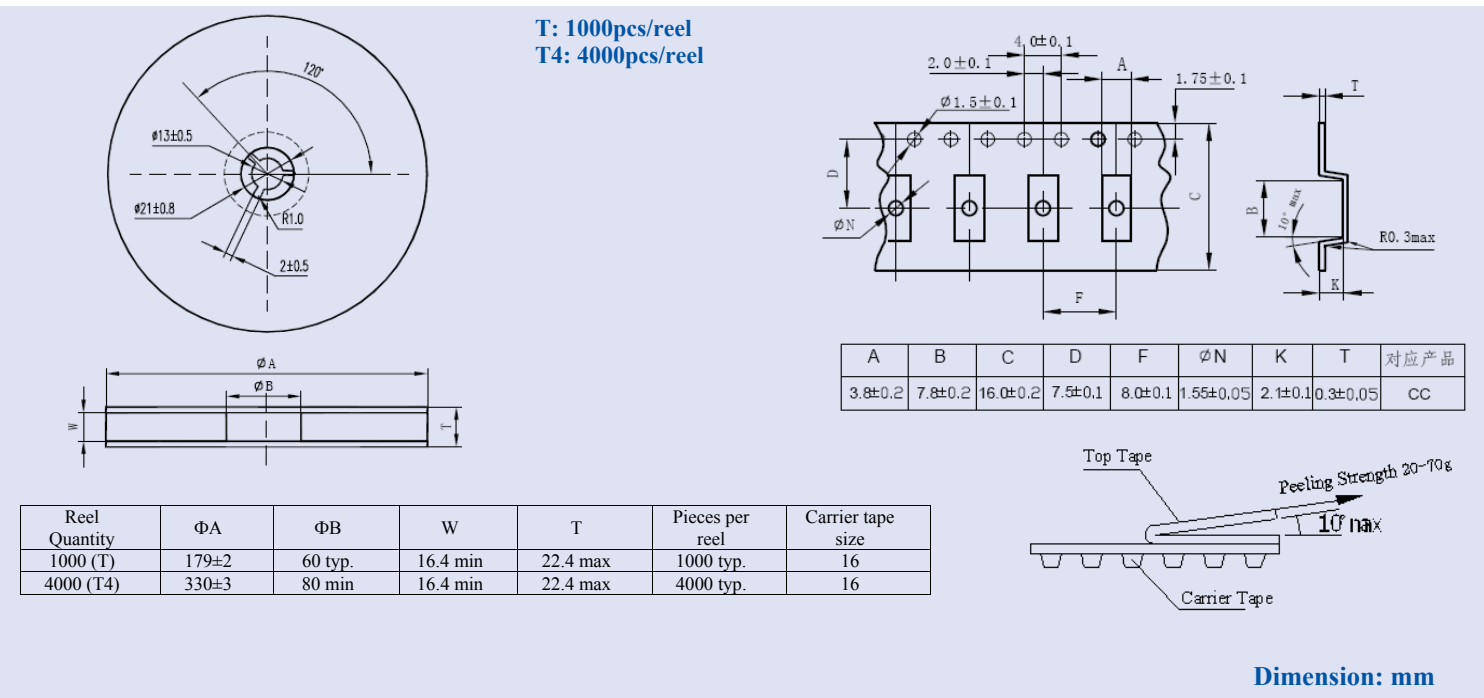


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OUTLINE DRAWING:



TAPE & REEL: (4,000pcs/reel):



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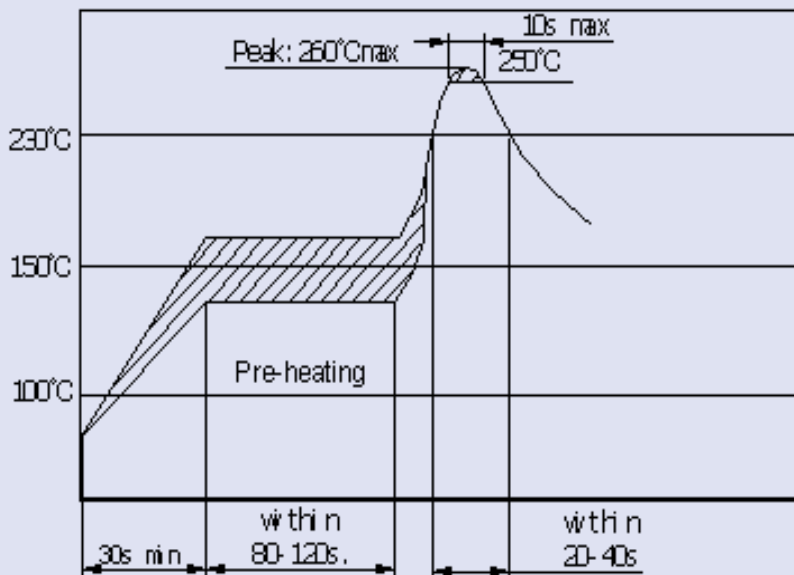
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REFLOW PROFILE:



Dimension: mm

CAUTION:

- Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- This component is not hermetically sealed. Do not clean or wash the component.
- Reflow soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during reflow Soldering.
- Do not expose the component to open flame.
- This specification applies to the functionality of the component as a single unit. Customers are advised to insure that the component is thoroughly evaluated in the particular application.
- Shelf life: The warranted shelf life of this product is six months after the delivery date under the conditions of sealed, unopened, original packaging.
- Storage conditions: If the product is to be stored for a period greater than six months after the delivery date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life-dependant application. Contact Abracon Corporation prior to using this product when in doubt.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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