

ECN/PCN No.: 5206

For Manufacturer			
Product Description: Ceramic Resonator	Abracon Part Number / Part Series: AWSCR-MV	☐ Documentation only ☐ ECN ☒ EOL	☒ Series ☐ Part Number
Affected Revision: F	New Revision: EOL	Application:	☐ Safety ☒ Non-Safety
Prior to Change: Rev F (Obsolete)			
After Change: EOL			
Cause/Reason for Change: Streamlining of manufacturing capabilities.			
Change Plan			
Effective Date: 2/6/2026	Additional Remarks:		
Change Declaration:			
Issued Date: 2/6/2026	Issued By: Stephanie Lopez	Issued Department: Engineering	
Approval: Thomas Culhane Engineering Director	Approval: Reuben Quintanilla Quality Director	Approval: Ying Huang Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): N/A	Alternate Part Number / Part Series: AWSCR-CV		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: ☐ Approved ☐ Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			

INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MV

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

RoHS
Compliant

AWSCR



3.7 x 3.1 x 1.2 mm

FEATURES:

- Low resonant impedance
- High stability type
- Excellent environmental resistance
- Reflow capable
- Industrial grade
- Built-in load capacitance

APPLICATIONS:

- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers

ELECTRICAL CHARACTERISTICS:

Item	Requirement
Frequency Range	8.00MHz to 50.00 MHz
Resonant Impedance	40Ω max.
Frequency Tolerance and stability	See Table 2.1
Withstanding Voltage	50 (DC , 1 min)
Rating Voltage	
(1) D.C.Voltage	10 V.D.C. max
(2) A.C. Voltage	15 Vp-p. max
Load Capacitance	see Table 2.2 for standard see Option Code for options
Insulation Resistance	500MΩ min. (10V, 1min)
Operating Temperature	See Table 2.1
Storage Temperature	-40°C to +125°C
Aging Rate (Fosc)	±0.3% max. (10 years)

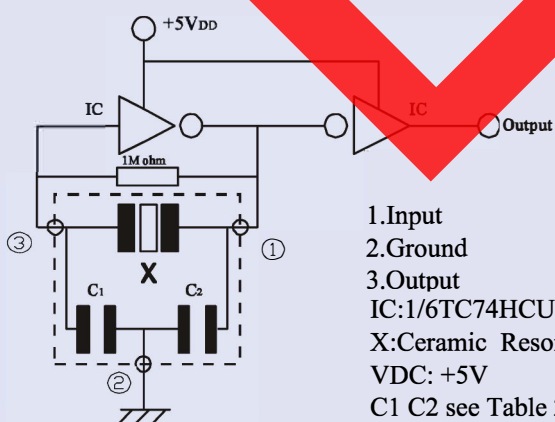
TABLE 2.1

Part Number (XX.XX denotes freq. in MHz)	Frequency Tolerance at 25°C	Frequency Stability at Operating Temp.	Operating Temperature	Resonant Impedance (Ω) max
AWSCR-XX.XXMVS 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	±0.3%	± 0.3%	-20° to +80°C	30 40
AWSCR-XX.XXMVD 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	±0.3%	± 0.5%	-40° to +85°C	30 40
AWSCR-XX.XXMVA 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	±0.3%	± 0.7%	-40° to +125°C	30 40

TABLE 2.2

Freq (MHz)	Cl=C2 pf (±20%)
8.00~13.00	20
13.01~16.00	20
16.01~40.00	10
40.01~50.00	5

TEST CIRCUIT



OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

AWSCR - Frequency- MV - C -

Frequency

XX.XXMHz

Packaging

T for Tape and Reel
(1,000pcs/reel)

Operating Temperature

S	-25° to +85°C
D	-40° to +85°C
A	-40° to +125°C

Load Capacitance

ex. 5pF-20pF

Contact ABRACON for Load Capacitance options



AWSCR

AW/SCR-MV

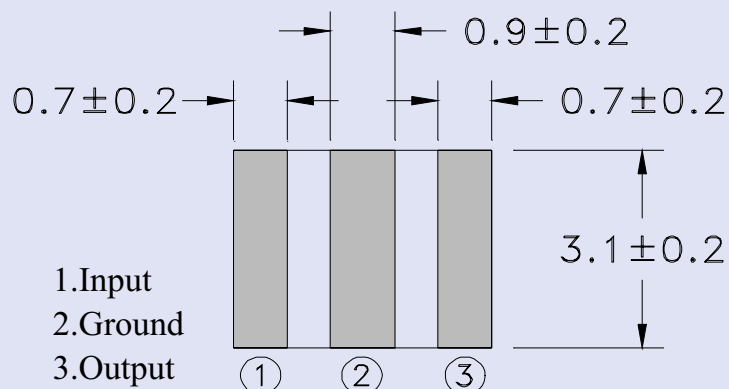
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Compliant

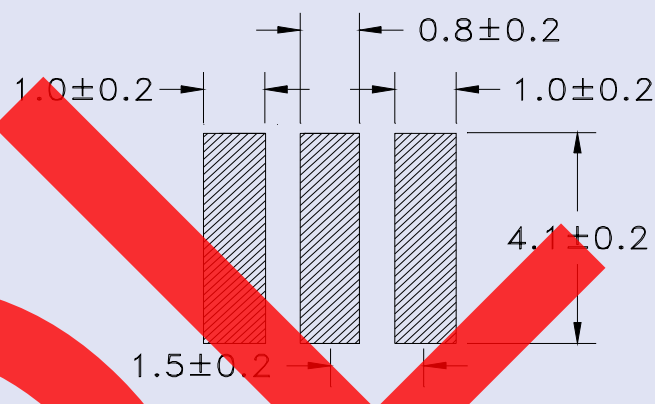


3.7 x 3.1 x 1.2 mm

➤ **OUTLINE DRAWING:**

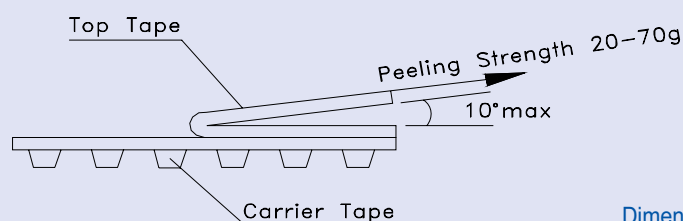
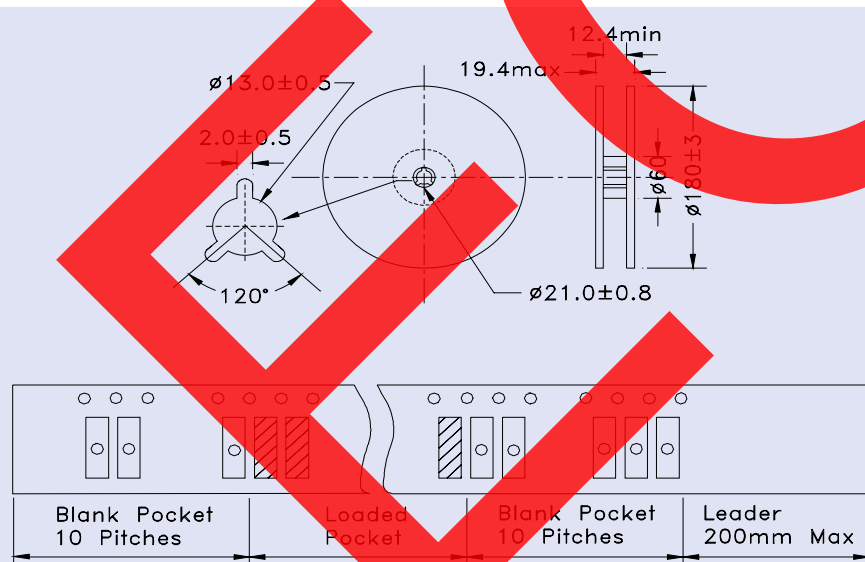


Recommended Land Pattern



Dimensions: mm

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



Dimensions: mm

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30332 Esperanza, Rancho Santa Margarita, California 92688

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AWSCR

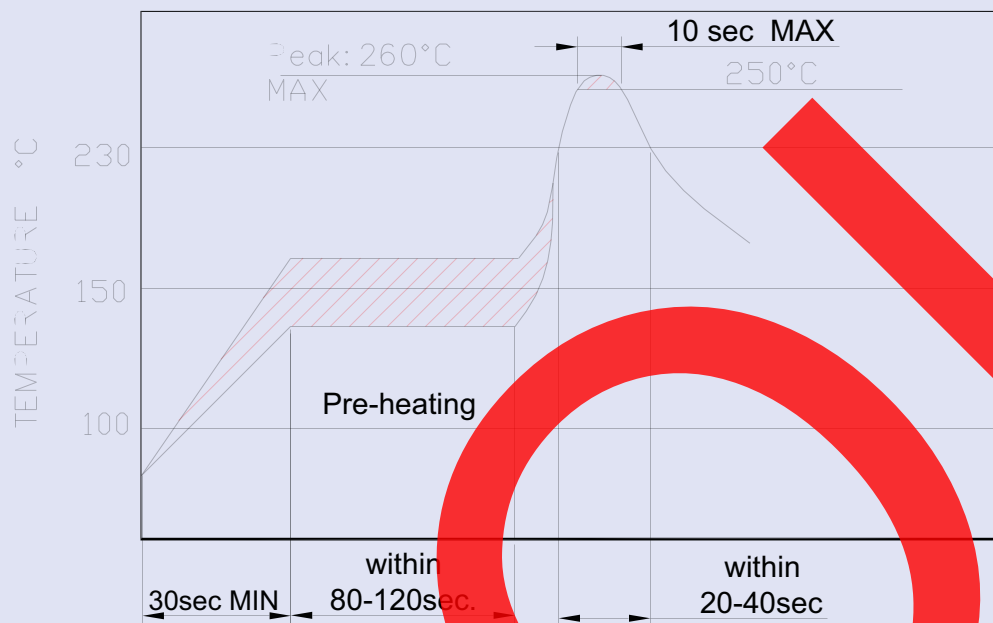


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SUGGESTED REFLOW PROFILE:

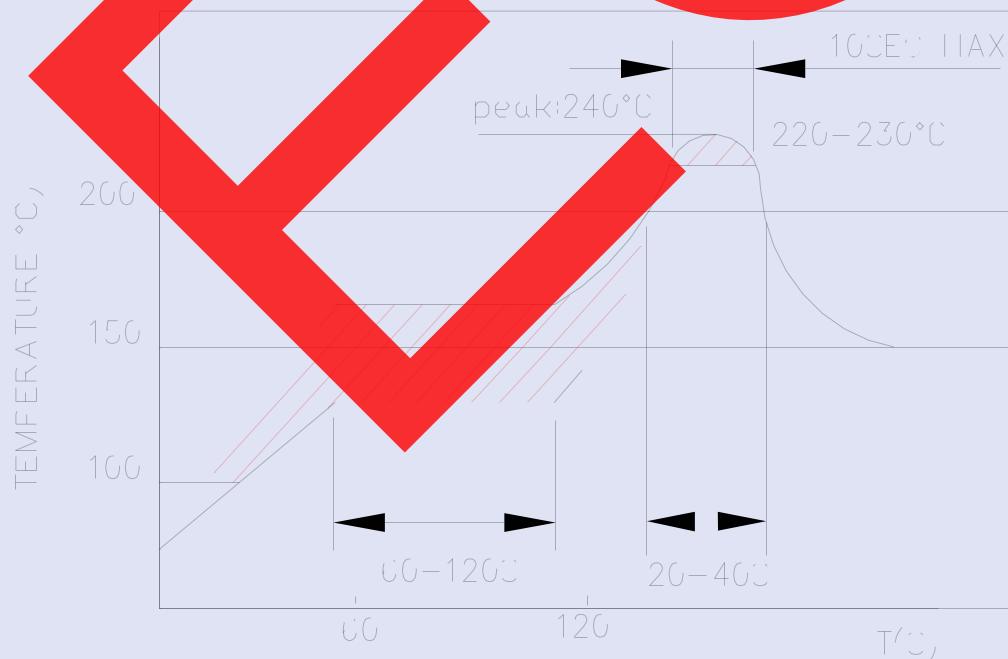
ROHS reflow profile high temperature

(applies to parts manufactured after 2/1/2007 -lot# later than 07 01 xxx)



ROHS reflow profile

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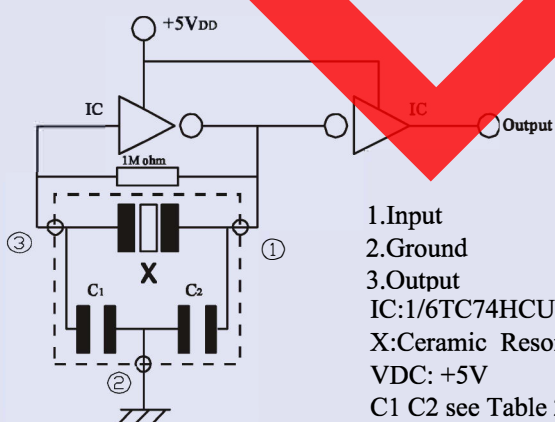
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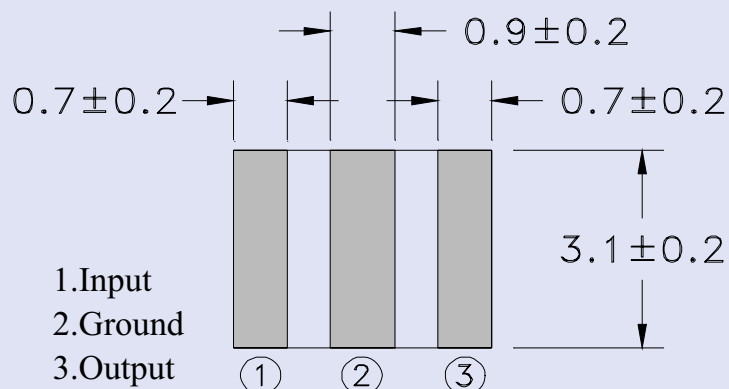
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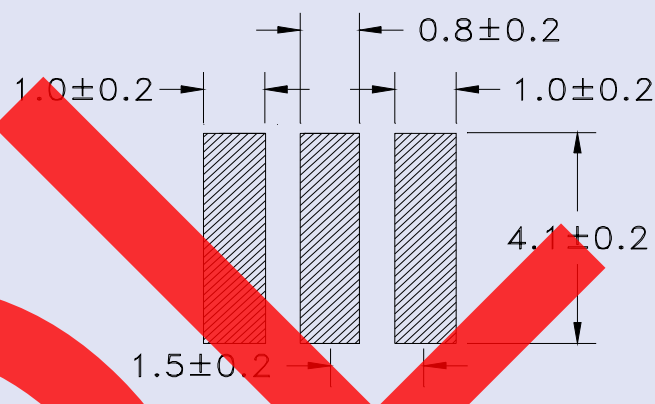


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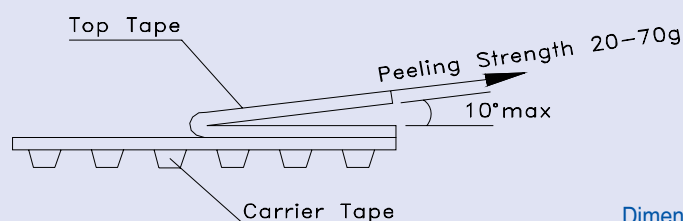
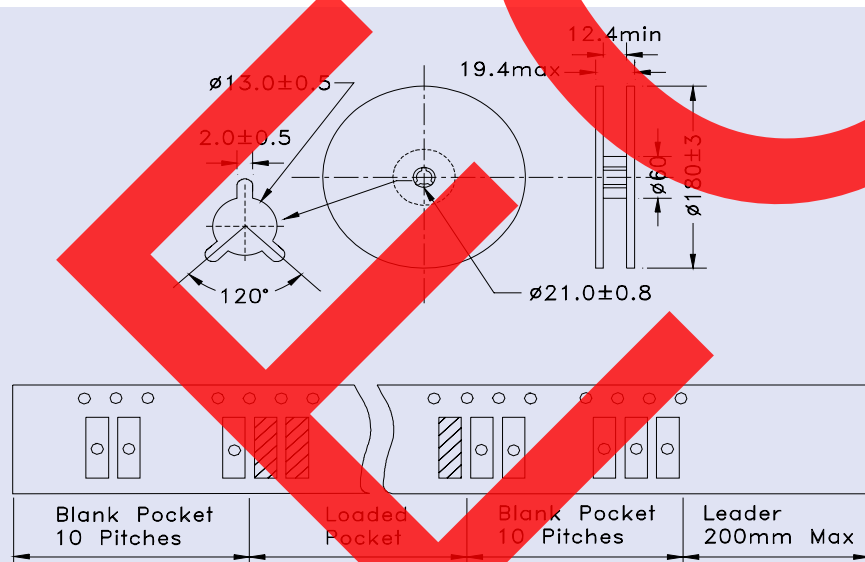


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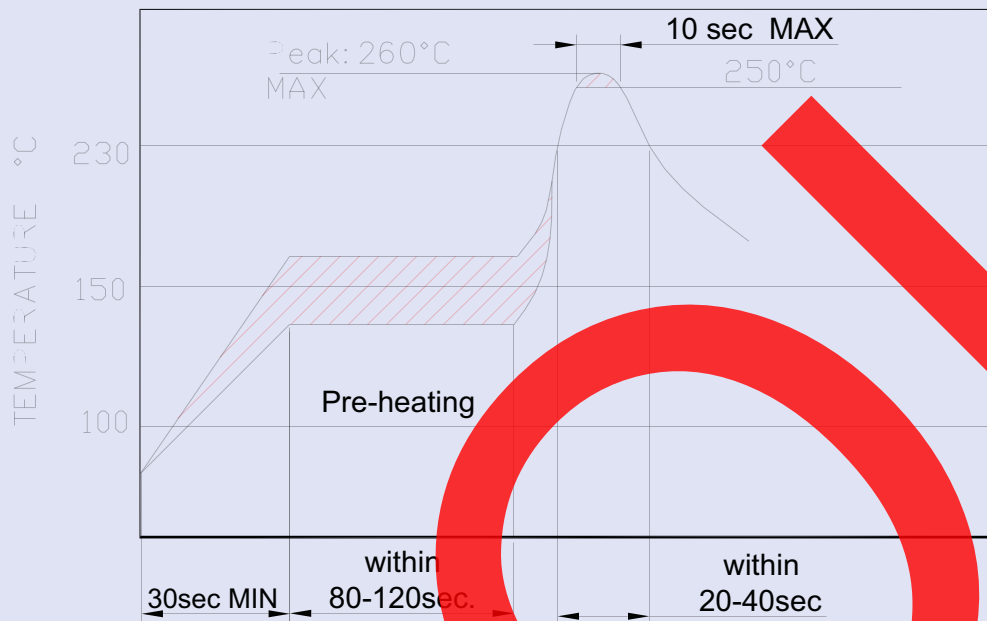


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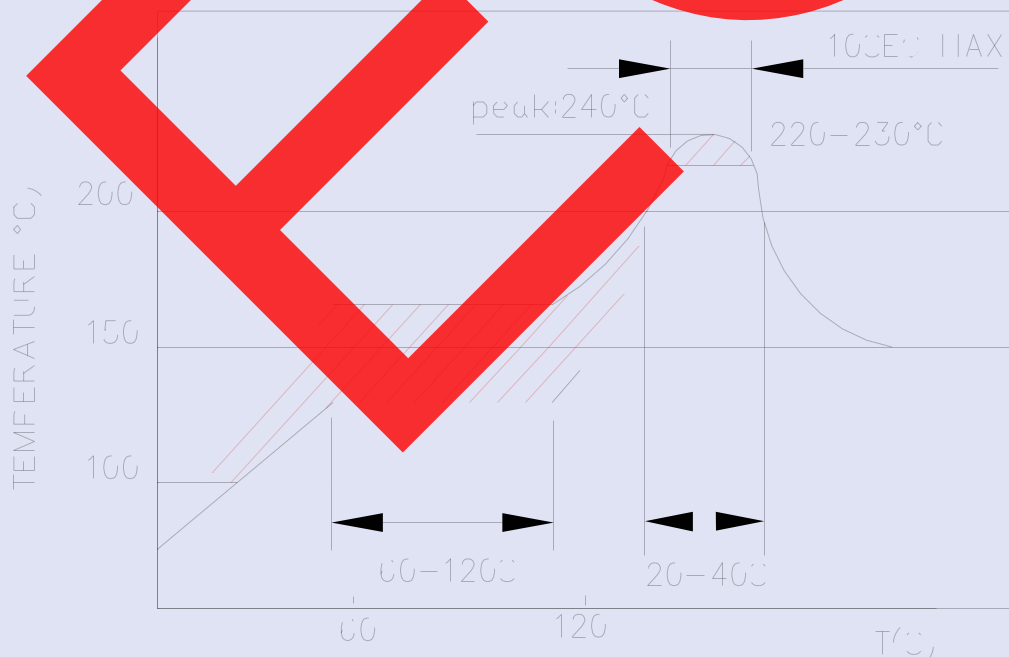
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ROHS reflow profile

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Brand	Part Numbers	Series	ECO#
Abrakon	AWSCR-11.05MVS-T	AWSCR-MV	5206
Abrakon	AWSCR-8.00MVA-T	AWSCR-MV	5206
Abrakon	AWSCR-8.00MVA-15	AWSCR-MV	5206
Abrakon	AWSCR-8.00MVD	AWSCR-MV	5206
Abrakon	AWSCR-8.00MVD-T	AWSCR-MV	5206
Abrakon	AWSCR-32.00MVD	AWSCR-MV	5206

[illegible]

[illegible]