

# Engineering/Process Change Notice

#### ECN/PCN No.: 4636

For Manufacturer									
<b>Product Description:</b> Ceramic Resonator	Abracon Part Number / Part Series: AWSCR-MT Series		□ Documentation only ⊠ ECN □ EOL	<ul><li>□ Series</li><li>⊠ Part Number</li></ul>					
Affected Revision:	New Revision:	DL	Application:	□ Safety ⊠ Non-Safety					
Prior to Change: Active AWSCR-MT Rev D	1		1						
After Change: EOL									
Cause/Reason for Change: Discontinuation of manufacturing capability.									
Change Plan									
Effective Date: 4/10/2023	Additional Remarks	:							
Change Declaration:									
Issued Date: 4/10/2023	Issued By: Stephanie Lopez		Issued Department: Engineering						
Approval: Thomas Culhane Engineering Director	Approval:     Approval:       Reuben Quintanilla     Ying Huang       Quality Director     Purchasing Director		-						
For Abracon EOL only									
		Alternate Part Number / Part Series: <u>AWSCR-MTD</u>							
Additional Approval:	Additional Approval	onal Approval: Additional Approval:							
Customer Approval (If Applicable)									
Qualification Status: Approved D Not accepted Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.									
Customer Part Number:		Customer Project:							
Company Name:	Company Represent	ative:	Representative Signature	2:					
Customer Remarks:			1						

Form #7020 | Rev. G | Effective: 02/22/2021 |

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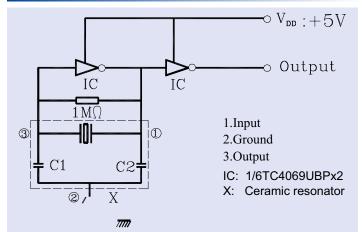






IDUSTRIAL GR	ade Bu	ILT-IN CAPACIT CE	ANCE RAMIC RESON	NATOR	AWSCR
AWSCR-MT		(exempt per R	Pb in ceram oHS 2002/95/EC Annex (7		4.7 x 4.1 x 1.2 mm
FEATURES:					
<ul> <li>Low resonant impedanc</li> <li>High stability type</li> <li>Excellent environmental</li> </ul>			<ul> <li>Remote controls, Microprocessor clocks, Mobile phones, DVD &amp; CD-Roms, Electric appliances, Industrial controllers</li> </ul>		
ELECTRICAL CHAR	ACTERISTI	CS:			
Item Frequency Range Resonant Impedance Frequency Tolerance and stability Withstanding Voltage (1) D.C.Voltage (2) A.C. Voltage Load Capacitance Insulation Resistance Operation Temperature Storage Temperature Aging Rate (Fosc) TABLE 2.1	8.00Μ Se 50 6 15 See Tabl See Optio 500MΩ Se 500MΩ	uirement Hz to 50.00MHz ee Table 2.1 (DC , 1 min) V.D.C. max b Vp-p. max e 2.2 for standard n Code for options min. (10V, 1min) ee Table 2.1 0°C to +85°C max. (10 years)	Freq (MHz)         8.00~13.00         13.01~16.00         16.01~40.00         40.01~50.00	CI=C2 pf (±20%) 22 22 15 5	
Part Number ( <u>XX.XX</u> denotes	Frequency Tolerance	Frequency Stability	Operating Temperature	Resonant Impedance	
frequency in MHz) AWSCR-XX.XXMTS 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	at 25°C ±0.5%	at Operating Temp. ± 0.3%	-20° to +80°C	(Ω) max 30 40	
AWSCR-XX.XXMTD 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	±0.5%	± 0.5%	-40° to +85°C	30 40	
AWSCR-XX.XXMTA 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	±0.5%	±0.7%	-40° to +125°C	30 40	
TEST CIRCUIT:			PTIONS & PART ID	ENTIFICATIO	N:

## CIKCUII



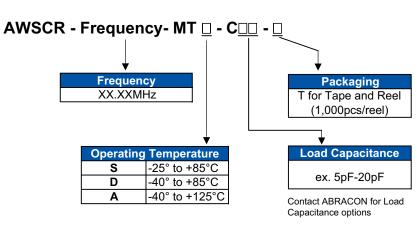
Parts shall be tested under the condition (Temp.: 20 ±3°C, Humidity: 65±20% R.H.) unless the standard condition; (Temp.: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure.





HUNS & PART IDENTIFICATION:

(Left blank if standard)



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#### **INDUSTRIAL GRADE BUILT-IN CAPACITANCE** AWSCR **CERAMIC RESONATOR** AWSCR-MT Pb in ceramic RoHS (exempt per RoHS 2002/95/EC Annex (7)) 4.7 x 4.1 x 1.2 mm Compliant **OUTLINE DRAWING:** $\triangleright$ $1.0 \pm 0.2$ 0.8±0.2- $-0.8\pm0.2$ Recommended Land Pattern $-1.3\pm0.2$ $4.1\pm0.2$ $0.8 \pm 0.2 -$ - 0.8±0.2 1.Input 2.Ground 3.Output (2)(3) (1) $5.1 \pm 0.2$ $1.95 \pm 0.2$ $1.95 \pm 0.2$ $1.5 \pm 0.2$ $4.7 \pm 0.2$ Dimensions: mm **TAPE & REEL:** T = Tape and reel 1,000pcs/reel 12.4min 19.4max ø13.0±0.5 $2.0 \pm 0.5$ ø21.0±0.8 120 0 0 0 0000 0 0 0 0 0000 C Blank Pocket Loaded Blank Pocket Leader 10 Pitches 200mm Max 10 Pitches Pocket Peeling Strength 20-70g Top Tape 10°max $\sum$ $\Box$ <u>Carrier Tape</u> Dimensions: mm

ABRACON IS ISO 9001 / QS 9000 CERTIFIED



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# INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR



RoHS

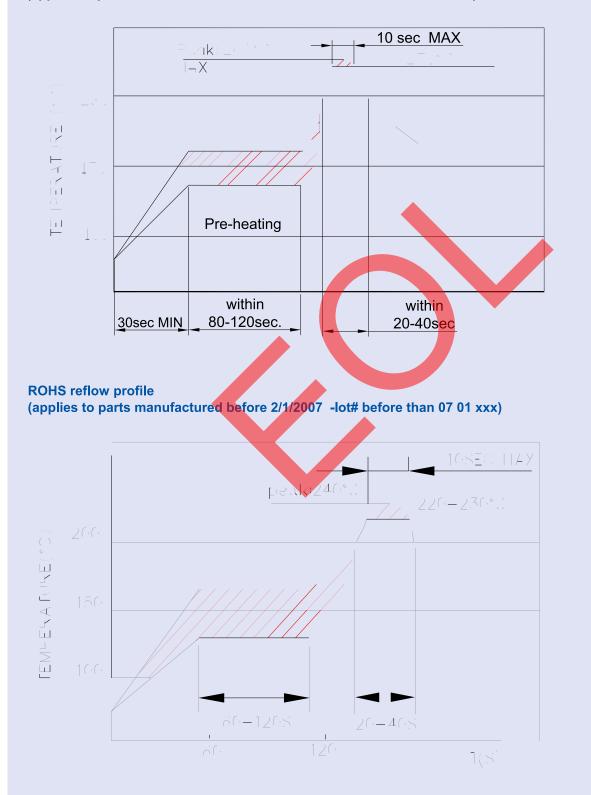
Compliant

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

### SUGGESTED REFLOW PROFILE:

AWSCR-MT

#### ROHS reflow profile high temperature (applies to parts manufactured after 2/1/2007 -lot# later than 07 01 xxx)







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