

Engineering/Process Change Notice

ECN/PCN No.: 4636

For Manufacturer						
Product Description:	Abracon Part Number / Part Series:		☐ Documentation only	☐ Series		
Ceramic Resonator	AWSCR-	MT Series	⊠ ECN	□ Part Number		
			□ EOL			
Affected Revision:	New Revision:		Application:	☐ Safety		
D	E	OL		Non-Safety		
Prior to Change:						
Active						
AWSCR-MT Rev D						
After Change:						
EOL						
Cause/Reason for Change:						
Discontinuation of manufacturing capabili	ty.					
	Char	ige Plan				
Effective Date:	Additional Remarks	s:				
4/10/2023						
Change Declaration:						
Issued Date:	Issued By:		Issued Department:			
4/10/2023	Stephar	nie Lopez	Engineering			
Approval:	Approval:		Approval:			
Thomas Culhane	Reuben Quintanilla		Ying Huang			
Engineering Director	Quality Director		Purchasing Director			
	For Abrad	con EOL only				
Last Time Buy (if applicable):		Alternate Part Numb	per / Part Series:			
N/A			AWSCR-MTD			
Additional Approval:	Additional Approva	 :	Additional Approval:			
	Customer Appr	oval (If Applicable)				
Qualification Status:						
	☐ Approved	☐ Not accepted				
Note: It is considered approved if there is r	no feedback from the d	customer 1 month afte	r ECN/PCN is released.			
Customer Part Number:	: Customer Project:					
Company Name:	Company Represent	tative:	Representative Signature			
	pany naprasantana					
Customer Remarks:						

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









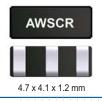


INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MT

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





FEATURES:

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

APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

Item	Requirement	
Frequency Range	8.00MHz to 50.00MHz	
Resonant Impedance	See Table 2.1	
Frequency Tolerance		
and stability	See Table 2.1	
Withstanding Voltage	50 (DC , 1 min)	
Rating Voltage		
(1) D.C.Voltage	6 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)	
Operation Temperature	See Table 2.1	
Storage Temperature	-55°C to +85°C	
Aging Rate (Fosc)	±0.3% max. (10 years)	

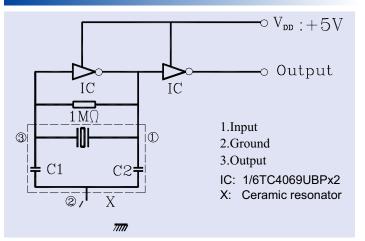
TABLE 2.2

Freq (MHz)		CI=C2 pf (±20%)	
	8.00~13.00	22	
1	13.01~16.00	22	
	16.01~40.00	15	
1	40.01~50.00	5	

TABLE 2.1

IADLE 2.1				
Part Number (<u>XX.XX</u> denotes frequency in MHz)	Frequency Tolerance at 25°C	Frequency Stability at Operating Temp.	Operating Temperature	Resonant Impedance (Ω) max
AWSCR-XX.XXMTS				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.5%	± 0.3%	-20° to +80°C	40
AWSCR-XX.XXMTD				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.5%	± 0.5%	-40° to +85°C	40
AWSCR-XX.XXMTA				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.5%	± 0.7%	-40° to +125°C	40

TEST CIRCUIT:



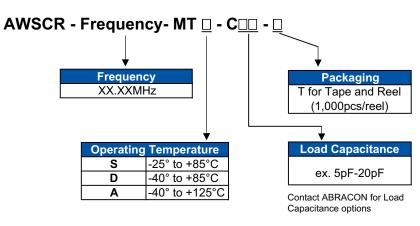
Parts shall be tested under the condition (Temp.: 20±3°C, Humidity: 65±20% R.H.) unless the standard condition; (Temp.: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure.

ABRACON IS ISO 9001 / QS 9000 CERTIFIED



OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

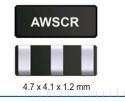


INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MT

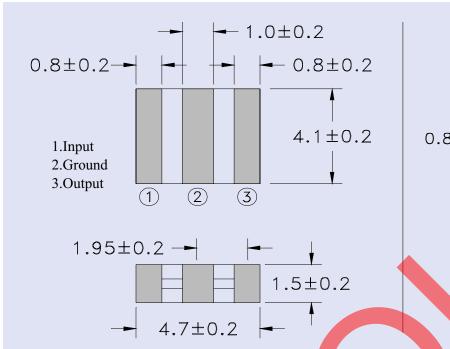
Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))

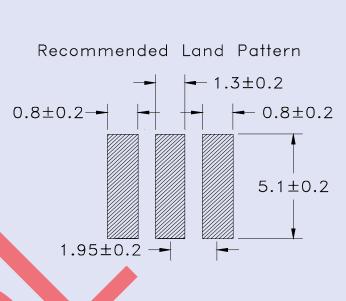




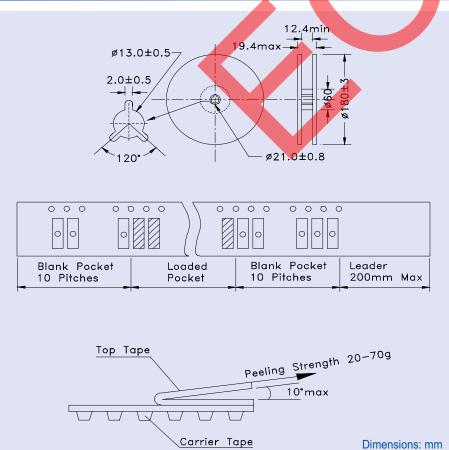
Dimensions: mm

> OUTLINE DRAWING:





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





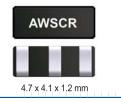


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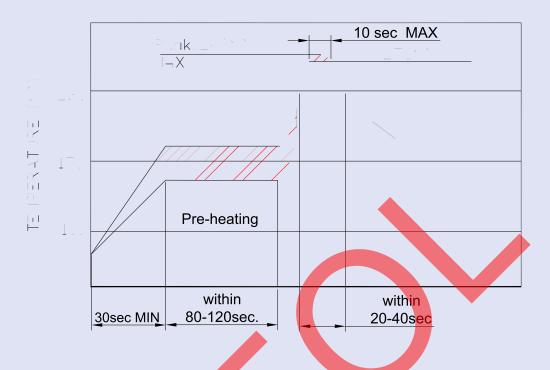
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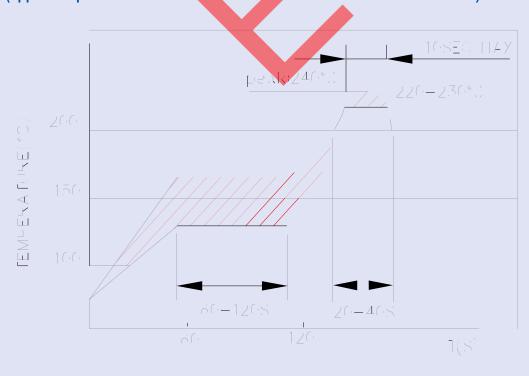
SUGGESTED REFLOW PROFILE:





ROHS reflow profile

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







AFFECTED PART NUMBERS

AWSCR-16.00MTD-T
AWSCR-16.00MTD-T
AWSCR-16.00MTD-T
AWSCR-20.00MTD-T
AWSCR-20.00MTD-T
AWSCR-20.00MTD-T
AWSCR-8.00MTD-T
AWSCR-8.00MTD-T