

Engineering/Process Change Notice

ECN/PCN No.: 4258

For Manufacturer							
Product Description: Automotive & Industrial Grade Ceramic SMD Miniature Crystal	Abracon Part Numb AAH-438-28.0	er / Part Series: 53636MHz-T3	 □ Documentation only □ ECN ⊠ EOL 	□ Series ⊠ Part Number			
Affected Revision: I.R.	New Revision:	OL	Application:	□ Safety ⊠ Non-Safety			
Prior to Change:							
AAH-438-28.63636MHz-T3 I.R.							
After Change:							
EOL							
Cause/Reason for Change: Discontinuation of this older product p	ackage type and as	sociated manufactu	ring capability.				
	Chan	ge Plan					
Effective Date: 03/17/2022	Additional Remarks:						
Change Declaration:	·						
Issued Date: 03/17/2022	Issued By:		Issued Department: Engineering				
Approval: Engineering Director	Approval: Quality Director		Approval: Purchasing Director				
	For Abrac	on EOL only					
Last Time Buy (if applicable): None	Alternate Part Number / Part Series: None						
Additional Approval:	Additional Approval:		Additional Approval:				
1	Customer Appre	oval (If Applicable)	1				
Qualification Status:		□ Not accepted	FCN/DCN is released				
Note: It is considered approved if there is no feedback from the customer 1 month aft		r ECN/PCN is released.					
Customer Part Number:		Customer Project:					
Company Name:	Company Representative:		Representative Signature:				
Customer Remarks:			1				

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

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Ecliptek









The Power of Linking Together	AAH-438-28.63636MHz-T3 Automotive & Industrial Grade Ceramic SMD Miniature Crystal	RoHS Compliant	
Date of Issue: Feb. 4 th , 2017	3.2 x 2.5 x 0.8mm	Application Safety Image: Non-safety	
Page (1) of (4)	Abracon Drawing # 100666	Revision #: Initial Release	

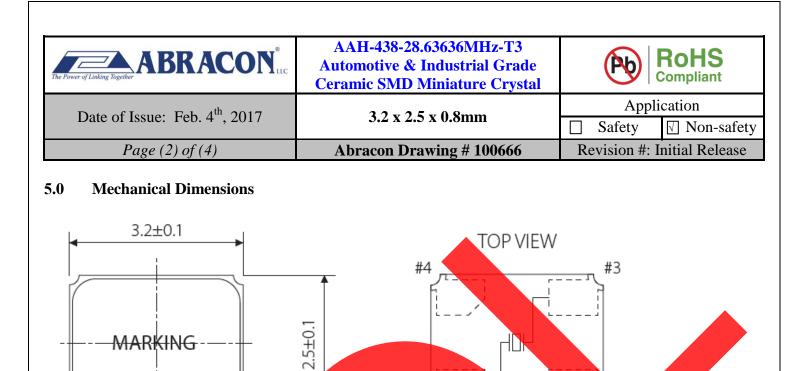
1.0 Key Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range		28.63636		MHz	
Operation Mode	Fu	ndamental, AT	-cut		
Operating Temperature	-40		+125	°C	
Storage Temperature	-40		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	
Frequency Stability over the Operating Temperature (ref. to +25°C)	-50		+50	ppm	
Equivalent series resistance (R1)			25	Ω	
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		12		pF	
Drive Level		10	100	μW	
Aging	-3		+3	ppm	@25°C±3°C First year
Insulation Resistance	500			MΩ	@ $100Vdc \pm 15V$

- 2.0 AAH-438-28,63636MHz-T3 series is RoHS/RoHS II Compliant and Pb free.
- 3.0 Moisture Sensitivity Level (MSL) This product is Hermetically Sealed and not Moisture Sensitive MSL = N/A: Not Applicable
- 4.0 Part Identification and ordering information

АА<mark>Н-438</mark>-28.63636МНz - [

Packaging Blank: Bulk T3: 3kpcs/reel



#1

0.8max.

<u>1</u>0

#2

0.1

#3

(Please connect it with GND.)

• #1,#3 : Crystal te

rminal / #2,#4:Connected to cover

Q.

Recommended Land Pattern

2.3



#1

#4

5.1 **Sealing Method = Seam Sealing**

1.2

MARKING

The Power of Linking Together	AAH-438-28.63636MHz-T3 Automotive & Industrial Grade Ceramic SMD Miniature Crystal	RoHS Compliant		
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6.0 Reliability Tests Conditions

Parts shall meet or exceed Reliability requirements for Automotive Grade crystals set by Automotive Electronics Council document AEC-Q200 Rev D.

