

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	Q1108- ALMB1009220MTA		
DATE	Nov. 08, 202	23	
REVISION	A0	Updated With Most Recent Data - Official First Release	
DESCRIPTION AND MAIN PARAMETRICS	SMD Power Fixed Inductors, ALMB series, 4 pins Size Code 1009, Dimension: L10.5*W9.5*H10.5mm Inductance: 22μH, Tolerance ±20%, Rated current (IDC1): 3.2A Max; D.C. Resistance: 52 Ω Max. Operating Temp. Range -40°C ~+125°C. Package in Tray, RoHS/RoHS III Compliant		
CUSTOMER			
CUSTOMER PART NO.			
CROSS REF. PART NO.			
ORIGINAL MFG/PART NO.	Aillen/ALMB1009-220MT		
PART CODE	ALMB10092	220MTA	

VENDOR APPROVE

Issued/Checked/Approved







DATE: Nov. 08, 2023

CUSTOMER APPROVE		
DATE:		

11/8/2023



SMD POWER INDUCTORS ALMB SERIES CASE 1009

MAIN FEATURE

- · Super Low Resistance, Ultra High Current Rating.
- · High Performance (Isat) Realized by metal dust core
- Cross Competitors Parts
- · RoHS III Complaint

REACH

APPLICATION

For General High Current Power Supplies

PART CODE GUIDE

R	<u> </u>	Q			
Re	que	st Fo	r Qu	ota	tion

ALMB	1009	220	M	Т	Α
1	2	3	4	5	6

1. ALMB: SMD Power Fixed Inductors, ALMB series, 4 pins

2. 1009: Size Code 1009, Dimension: L10.5*W9.5*H10.5mm

3. 220: Nominal Inductance Code, 220: 22µH

4. M: Inductance Tolerance: K: ±10%; M: ±20%

5. T: Package Code: T: Tray

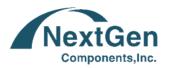
6. A: Internal Control Code or special Parameters code letter A~Z or digits (1-9)

ELECTRICAL CHARACTERISTICS

See Page 4 For Different Part Code

HOW TO ORDER

Please indicate pat code and send us your RFQ by E-mail, sales@nextgencomponent.com



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DIMENSION – (Unit: mm)

Image For Reference

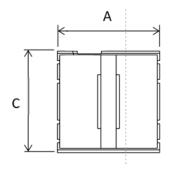


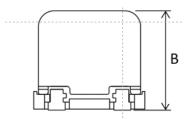
ALMB Series

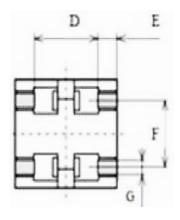
Size Code 1009

Dimension:

L10.5*W9.5*H10.5mm

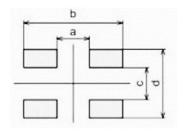






Symbol	Dimension
Α	10.5 Max.
В	10.5 Max.
С	9.5 Max.
D	6.5 ± 0.3
E	2.0 ± 0.5
F	5.5 ± 0.5
G	1.2 ± 0.1
а	5.6 Typ.
b	10.6 Тур.
С	3.6 Тур.
d	7.4 Typ.

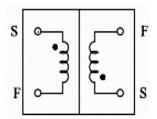
Recommend Pad Layout





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CIRCUIT DIAGRAMT



MATERIAL LIST FOR REFERENCE

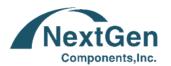
No.	Material Name	Material Description
1	ore	FERRITE
2	Wire	AIW
3	Solder	107H
4	Ероху	G-500HF
5	Margin Tape	WF

ELECTRICAL CHARACTERISTIC

Part Code	Inductance @10KHz/1V		DCR	IDC 1	IDC 2
	L (uH)	Tol (%)	(mΩ)	(A) Max.	(A) Max.
ALMB10093R3MTA	3.3	±20	20 Typ.	10	8.5
ALMB1009100MTA	10	±20	22 Typ	5	3.9
ALMB1009150MTA	15	±20	44 Typ.	4.1	2.8
ALMB1009220MTA	22	±20	52 Typ.	3.2	2.5

Notes

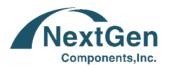
- 1. IDC1:Base on Temp. rise & ΔL/L0A≦35% Max
- 2. IDC2:Temp.rise 40°C Typ.
- 3. Operating Temperature: -40°C up to +125°C
- 4. Temperature: -20°C up to +40°C, 75% RH Max.



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RELIABILITY TEST-

No.	Item	Test Terminal		
1	Operating Temperature	- 40 to +125 °C (Contain Heating coil)		
2	Appearance Inspection	No external defects by visual inspection		
3	Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right)		
4	Heat endurance of reflow soldering	Refer to figure		
5	Insulating resistance	Over 100 M Ω at 100V D.C . between wire and core		
6	Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core		
7	Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C(- 40~ + 125 °C)		
8	Humidity characteristics	Inductance deviation within \pm 10% , after 96 hours in 90~95% relative humidity at 40 \pm 2 °C and 1 hours drying under normal condition		
9	IR Reflow profile	Temperature and humidity . After that , no mechanical and electrical defect should be found . Temperature °C 300 250 250 200 150 preheating 1 to 4 min Natural cooling Time		



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PACKAGE

Packed in Tray and box

STORAGE PERIOD

Products which inspected in QC dept. over 6 months ago should be examined and used, Solder ability should be checked if this period is exceeded.

STORAGE CONDITIONS

- Products should be storage in the warehouse on the following conditions Temperature: ≤40°C; Humidity :
 ≤70% relative humidity, No rapid change on temperature and humidity
- 2. Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solder ability.
- 3. Products should be storage on the palette for the prevention of the influence from humidity, dust and so on.
- 4. Products should be storage in the warehouse without heat shock, vibration, direct sunlight and so on.
- 5. Products should be storage under the airtight packaged condition.



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ROHS COMPLIANCE

 The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained can be obtained at Download Center.

REACH COMPLIANCE

REACH substances of high concern (SVHCs) information is available for this product. Since the European
Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the
foreseeable future, REACH Test Report for this product can be obtained can be obtained at Download Center.

IMPORTANT NOTES AND DISCLAIMER

- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test
 conditions, unless otherwise noted. Product performance may not be indicated by the Electrical
 Characteristics if operated under different conditions.
- 2. NextGen Component, Inc (*NextGen*) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
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