CDB80D92NP-R22MC Datasheet

DiGi Electronics Part Number	CDB80D92NP-R22MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDB80D92NP-R22MC
Description	INDUCTOR
Detailed Description	220 nH Shielded Inductor 71 A 162mOhm Nonstandard

https://www.DiGi-Electronics.com

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RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDB80D92NP-R22MC	Sumida America Components Inc.
Series:	Product Status:
CDB80D92	Active
Type:	Material - Core:
-	Ferrite
Inductance:	Tolerance:
220 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
71 A	38A
Shielding:	DC Resistance (DCR):
Shielded	162mOhm
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Inductance Frequency - Test:	Features:
1 MHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.504" L x 0.327" W (12.80mm x 8.30mm)
Height - Seated (Max):	
0.370" (9.40mm)	

Environmental & Export classification

Moisture Sensitivity Level (MSL):
1 (Unlimited)

SMD Power Inductor

CDB80D92

Description

- Ferrite core construction.
- Magnetically shielded.
- L×W×H:12.8×8.3×9.4mm Max.
- Product weight: 3.4g(Ref.)
- Moisture Sensitivity Level: 1

Environmental Data

- Operating temperature range: -40℃~+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃~+105℃

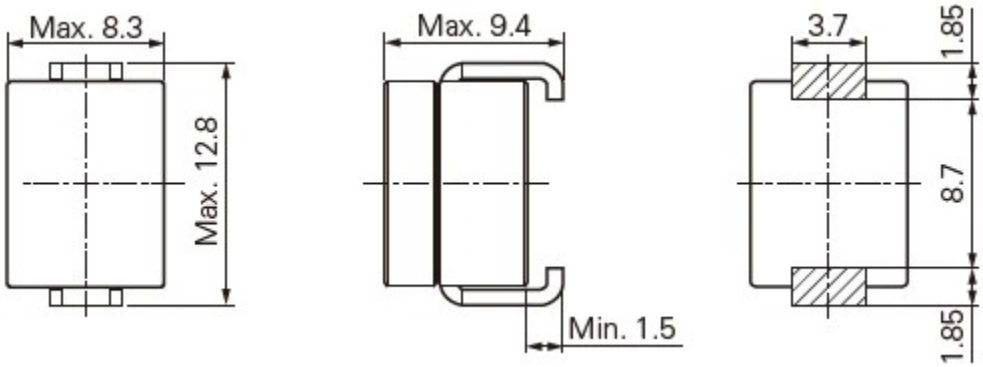
Packaging

- Carrier tape and reel packaging. 400pcs per reel.

Applications

- Multi-phase and Vcore regulators.
- Voltage Regulator Modules (VRMs). Such as Server and desktop, Central processing unit(CPU),Graphics processing unit (GPU), Application specific integrated circuit(ASIC), High power density.
- Data networking density.
- Graphics cards and battery power systems.

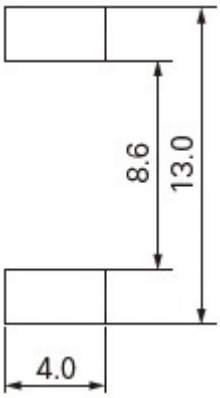
Dimension - [mm]



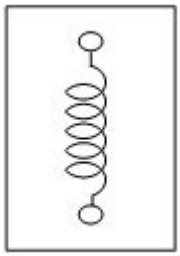
SMD Power Inductor

CDB80D92

Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

CDB80D92

Electrical Characteristics

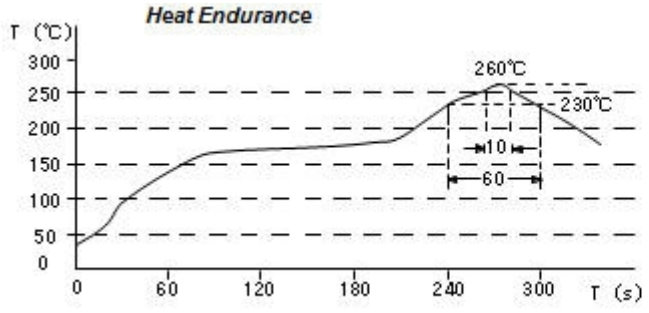
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20℃	100℃	
CDB80D92NP-R12MC	0.12 ± 20%	0.162 ± 10%	81.00 (95.00)	75.00 (88.00)	(71.00)
CDB80D92NP-R15MC	0.15 ± 20%	0.162 ± 10%	70.00 (82.00)	57.00 (67.00)	(71.00)
CDB80D92NP-R22MC	0.22 ± 20%	0.162 ± 10%	46.00 (54.00)	38.00 (45.00)	(71.00)
CDB80D92NP-R30MC	0.30 ± 20%	0.162 ± 10%	33.00 (39.00)	28.00 (33.00)	(71.00)

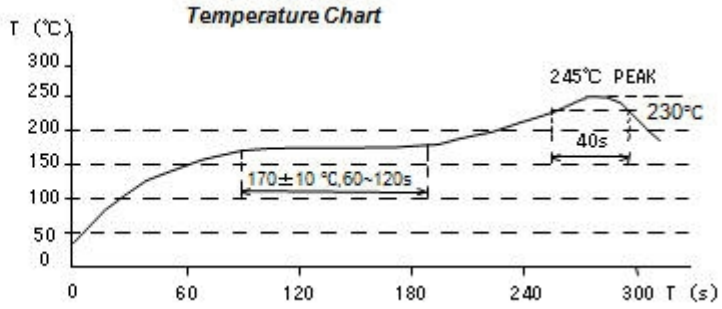
※1 Measuring frequency inductance at 1MHz.

※2 Saturation current: this indicates the actual value of D.C. current when the inductance becomes 20% lower than its initial value.

※3 Temperature rise current: the actual value of D.C. current when temperature of coils becomes △T=40℃(Ta=20℃).

Solder Reflow Condition





Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

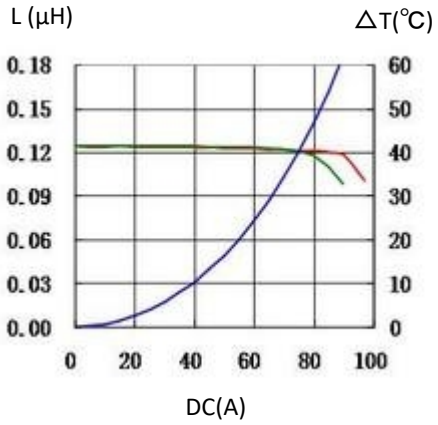
SMD Power Inductor

CDB80D92

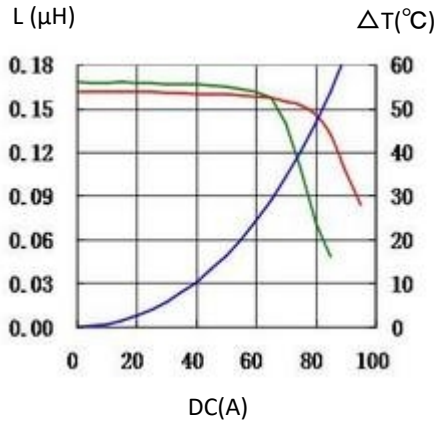
Saturation Current & Temperature Rise Graph

L (20°C) L (100°C) ΔT

1. CDB80D92NP-R12MC



2. CDB80D92NP-R15MC



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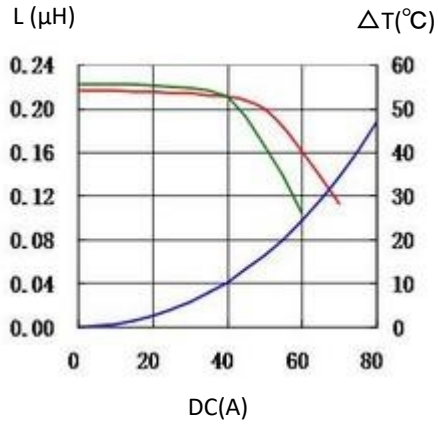
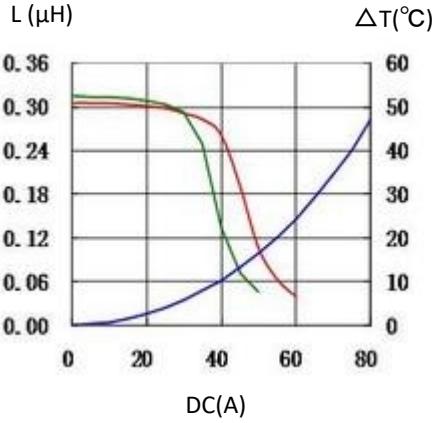


4. CDB80D92NP-R30MC



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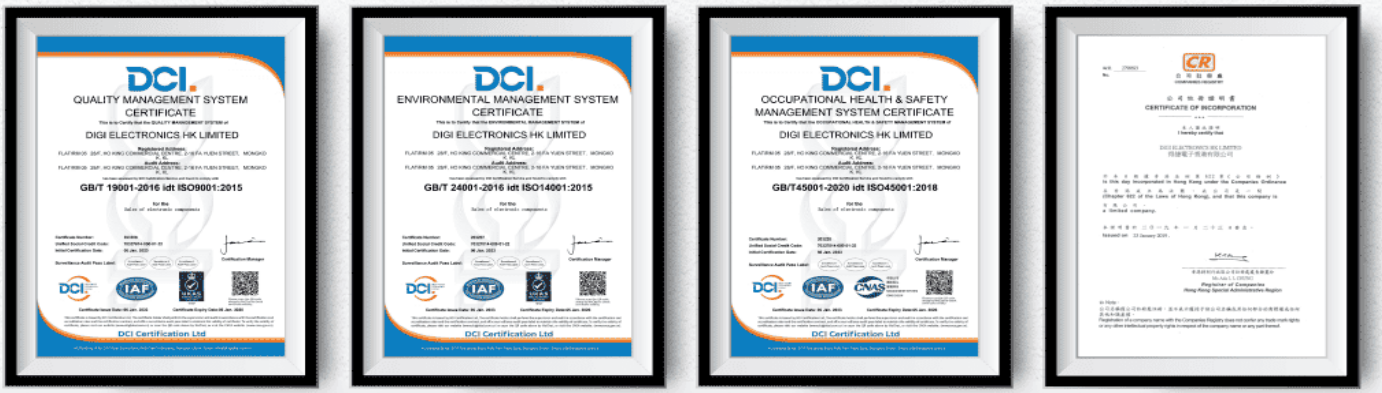

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DiGi is a global authorized distributor of electronic components.