

CDB78D68NP-R30MC Datasheet



Detailed Description

DiGi Electronics Part Number

Manufacturer Product Number Description

Manufacturer

CDB78D68NP-R30MC-DG

Sumida America Components Inc.

CDB78D68NP-R30MC

INDUCTOR

300 nH Shielded Molded Inductor 60 A 0.28mOhm

Nonstandard

https://www.DiGi-Electronics.com



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDB78D68NP-R30MC	Sumida America Components Inc.
Series:	Product Status:
CDB78D68	Active
Type:	Material - Core:
Molded	Ferrite
Inductance:	Tolerance:
300 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
60 A	22A
Shielding:	DC Resistance (DCR):
Shielded	0.28mOhm
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:
	0.409" L x 0.315" W (10.40mm x 8.00mm)
Height - Seated (Max):	
0.283" (7.20mm)	

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

SMD Power Inductor

CDB78D68

RoHS Compliance Cd Max 0.01w/s Others: Max. 0.1w/s

Sumida

Description

- Ferrite core construction.
- · Magnetically shielded.
- LxWxH:10.4x8.0x7.0mm Max.
- Product weight: 2.6g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

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

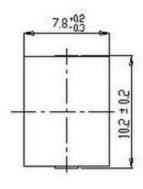
Packaging

• Carrier tape and reel packaging. 500pcs per reel.

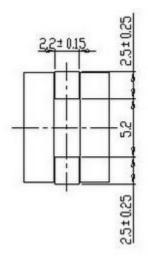
Applications

- 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]







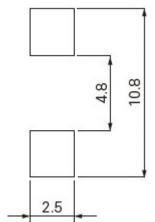
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor CDB78D68

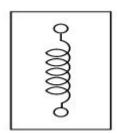




Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor CDB78D68

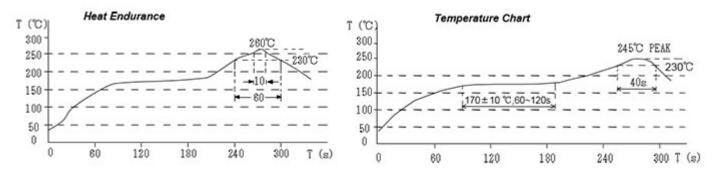


Electrical Characteristics

Part Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D.C.R. at 20°C Max.(Typ.) (mΩ)		Temperature Rise Current (A) Max.(Typ.)
	(), //		20°C	125°C	*3
CDB78D68NP-R15MC	0.15 ± 20%	0.28 ± 10%	59.50 (70.00)	42.50 (50.00)	(60.00)
CDB78D68NP-R22MC	0.215 ± 20%	0.28 ± 10%	42.50 (50.00)	32.00 (38.00)	(60.00)
CDB78D68NP-R30MC	0.30 ± 20%	0.28 ± 10%	29.00 (34.00)	22.00 (26.00)	(60.00)
CDB78D68NP-R47MC	0.47 ± 20%	0.28 ± 10%	20.00 (23.50)	14.50 (17.00)	(60.00)

X1 Measuring frequency inductance at 1MHz.

Solder Reflow Condition



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^{*2} Saturation current: this indicates the actual value of D.C. current when the inductance becomes 20% lower than it's initial value..

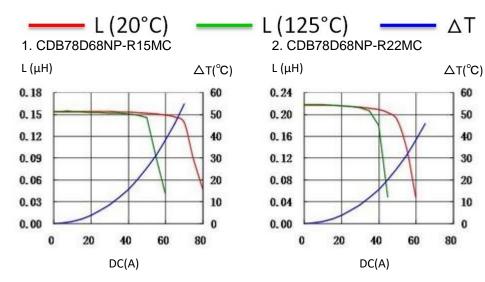
³ Temperature rise current: the actual value of D.C. current when temperature of coils becomes $\Delta T=40$ °C(Ta=20°C).

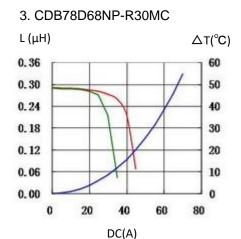
SMD Power Inductor

CDB78D68

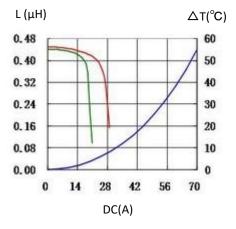








4. CDB78D68NP-R47MC





For sales office information, please <u>click here</u> to visit our website.

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