CDRR128NP-180MC Datasheet

DiGi Electronics Part Number	CDRR128NP-180MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRR128NP-180MC
Description	INDUCTOR
Detailed Description	18 µH Shielded Drum Core, Wirewound Inductor 3.8 A 44mOhm Max Nonstandard

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RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDRR128NP-180MC	Sumida America Components Inc.
Series:	Product Status:
CDRR128	Active
Type:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
18 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
3.8 A	4.6A
Shielding:	DC Resistance (DCR):
Shielded	44mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.480" L x 0.480" W (12.20mm x 12.20mm)
Height - Seated (Max):	
0.335" (8.50mm)	

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RoHS

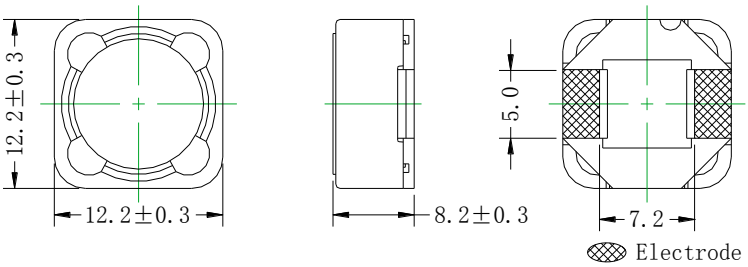
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.5 × 12.5 × 8.5 mm Max.
- Product weight:4.2 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data
- Operating temperature range: -40℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+125℃
- Solder reflow temperature: 260 ℃ peak.

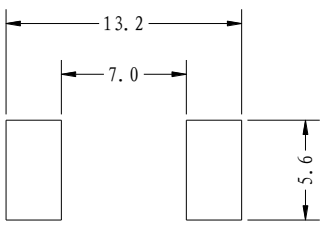
Packaging
- Carrier tape and reel packaging.
- 13.0"diameter reel
- 300pcs per reel

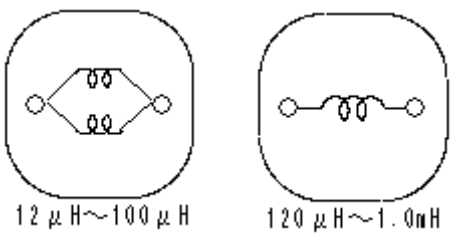
Applications
- For consumer electronics :DVD player, personal computer, LCD display, etc.
- For automotive: ABS, SRS airbag, HID/LED, car audio, car navigation, LCD display, etc.

Dimension - [mm]



Land pattern and Schematics - [mm]





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Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R.(Ω) [Max.] (Typ.) (at 20℃)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at 25℃)	(at 125℃)	
CDRR128NP-120MC	120	12±20%	36m(28.0m)	7.5(9.4)	5.9(7.3)	4.4(5.0)
CDRR128NP-150MC	150	15±20%	41m(33.0m)	6.6(8.3)	5.0(6.3)	4.2(4.8)
CDRR128NP-180MC	180	18±20%	44m(35.2m)	6.2(7.7)	4.6(5.7)	3.8(4.3)
CDRR128NP-220MC	220	22±20%	50m(40.3m)	5.3(6.6)	3.8(4.8)	3.6(4.2)
CDRR128NP-270MC	270	27±20%	65m(52.0m)	5.1(6.4)	3.7(4.6)	3.1(3.6)
CDRR128NP-330MC	330	33±20%	72m(57.4m)	4.9(6.1)	3.6(4.5)	3.0(3.4)
CDRR128NP-390MC	390	39±20%	79m(63.0m)	4.5(5.7)	3.4(4.3)	2.9(3.2)
CDRR128NP-470MC	470	47±20%	89m(71.0m)	3.8(4.7)	2.8(3.6)	2.8(3.2)
CDRR128NP-560MC	560	56±20%	103m(82.6m)	3.7(4.6)	2.7(3.4)	2.6(2.9)
CDRR128NP-680MC	680	68±20%	0.129(0.107)	3.4(4.2)	2.6(3.2)	2.2(2.5)
CDRR128NP-820MC	820	82±20%	0.155(0.129)	2.9(3.7)	2.1(2.7)	2.0(2.3)
CDRR128NP-101MC	101	100±20%	0.178(0.147)	2.6(3.3)	1.9(2.4)	1.9(2.1)
CDRR128NP-121MC	121	120±20%	0.208(0.173)	2.4(3.0)	1.7(2.2)	1.7(1.9)
CDRR128NP-151MC	151	150±20%	0.238(0.192)	2.2(2.8)	1.6(2.0)	1.6(1.8)
CDRR128NP-181MC	181	180±20%	0.301(0.25)	2.0(2.5)	1.5(1.9)	1.4(1.6)
CDRR128NP-221MC	221	220±20%	0.389(0.324)	1.9(2.4)	1.4(1.8)	1.2(1.4)
CDRR128NP-271MC	271	270±20%	0.487(0.406)	1.7(2.2)	1.3(1.6)	1.0(1.2)
CDRR128NP-331MC	331	330±20%	0.57(0.453)	1.6(2.0)	1.2(1.5)	0.97(1.1)
CDRR128NP-391MC	391	390±20%	0.71(0.58)	1.4(1.8)	1.1(1.4)	0.89(1.0)
CDRR128NP-471MC	471	470±20%	0.80(0.64)	1.3(1.6)	0.92(1.2)	0.88(1.0)
CDRR128NP-561MC	561	560±20%	0.96(0.793)	1.1(1.5)	0.89(1.1)	0.76(0.88)
CDRR128NP-681MC	681	680±20%	1.18(0.949)	1.0(1.3)	0.83(1.0)	0.76(0.87)
CDRR128NP-821MC	821	820±20%	1.48(1.23)	0.96(1.2)	0.72(0.90)	0.63(0.72)
CDRR128NP-102MC	102	1000±20%	1.82(1.52)	0.86(1.1)	0.68(0.85)	0.58(0.66)

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

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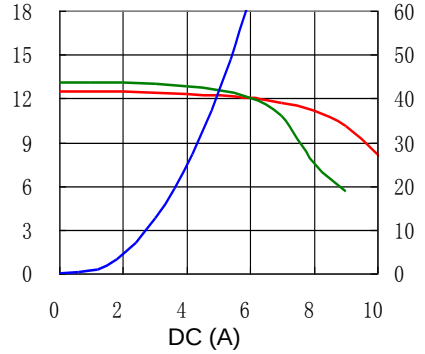
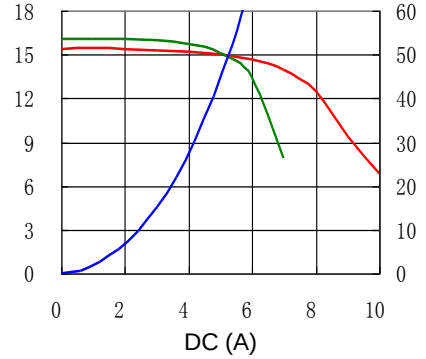
Saturation Current & Temperature Rise Graph

L (25℃) L (125℃) △T

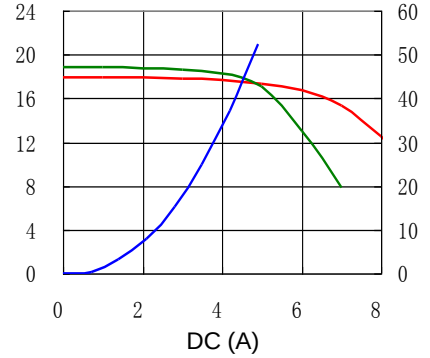
1. CDRR128NP-120MC



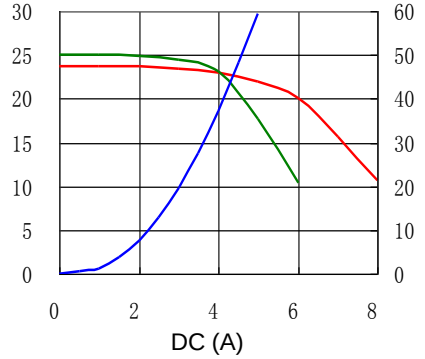
2. CDRR128NP-150MC



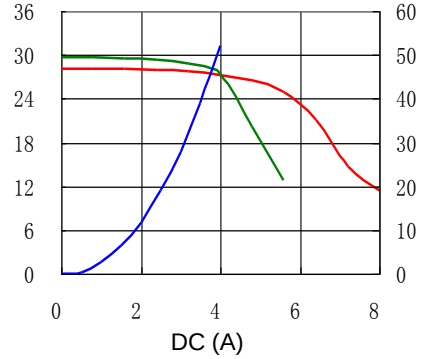
3. CDRR128NP-180MC



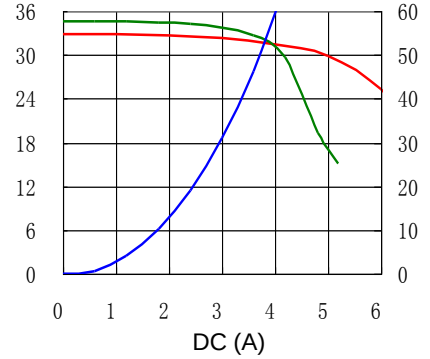
4. CDRR128NP-220MC



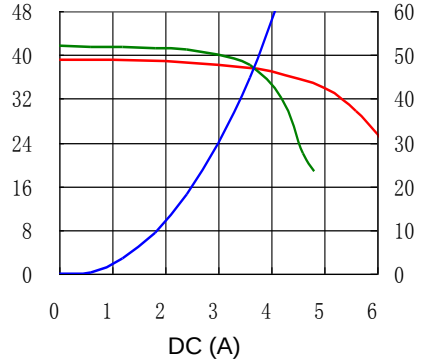
5. CDRR128NP-270MC



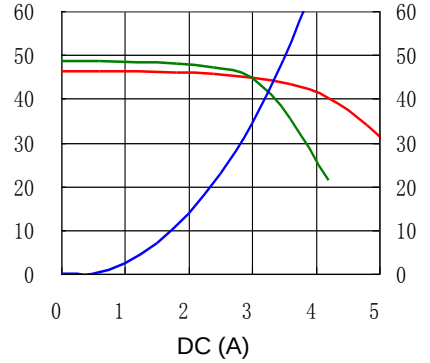
6. CDRR128NP-330MC



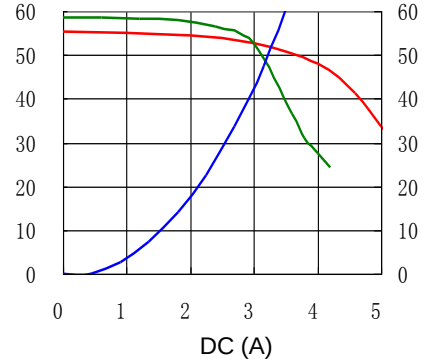
7. CDRR128NP-390MC



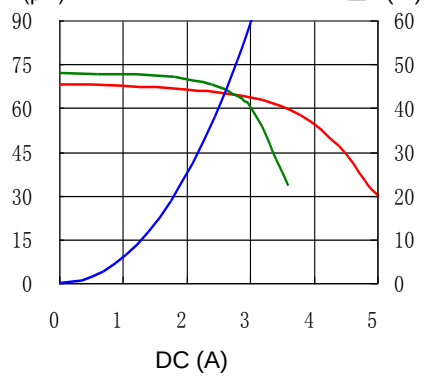
8. CDRR128NP-470MC



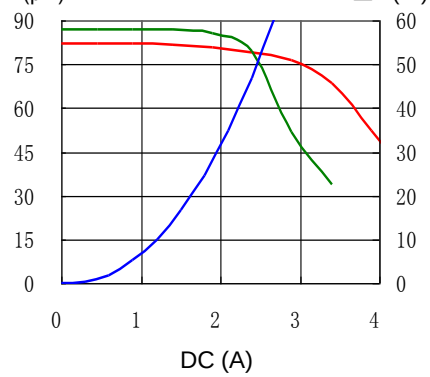
9. CDRR128NP-560MC



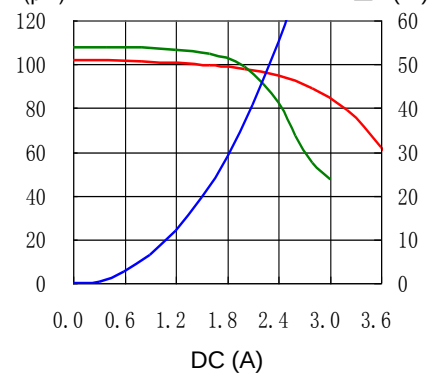
10. CDRR128NP-680MC



11. CDRR128NP-820MC



12. CDRR128NP-101MC



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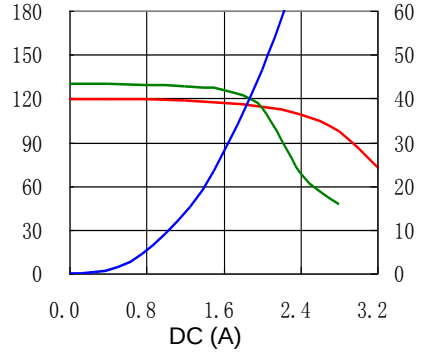
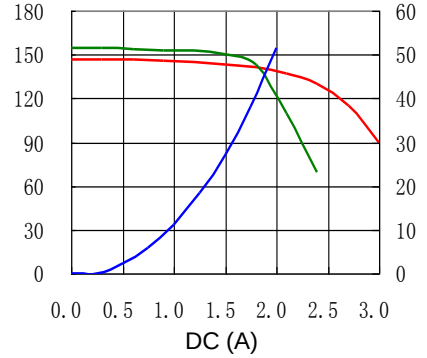
Saturation Current & Temperature Rise Graph

L (25℃) L (125℃) △T

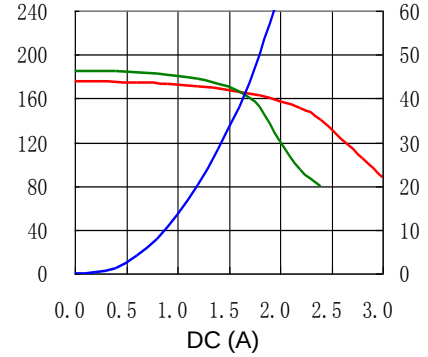
13. CDRR128NP-121MC



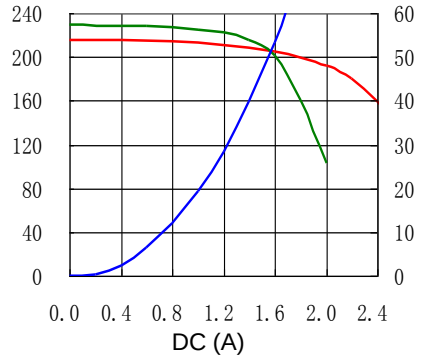
14. CDRR128NP-151MC



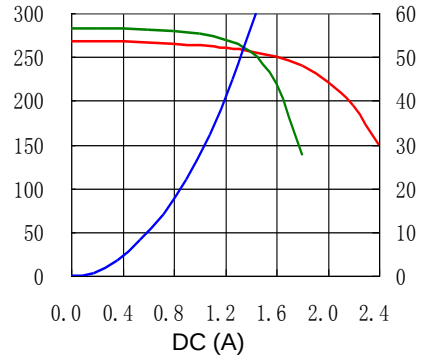
15. CDRR128NP-181MC



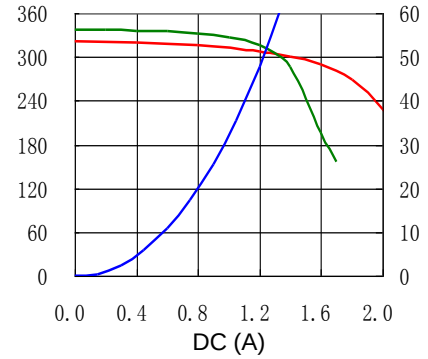
16. CDRR128NP-221MC



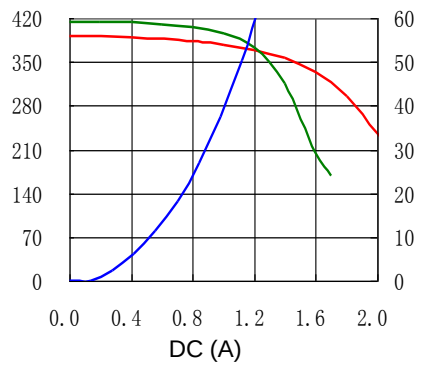
17. CDRR128NP-271MC



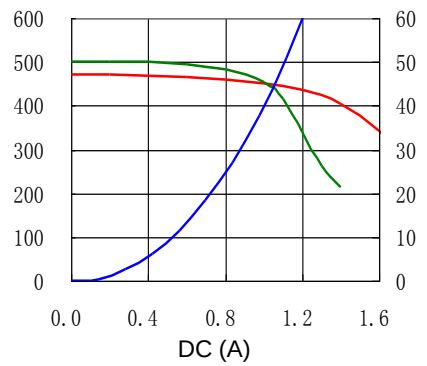
18. CDRR128NP-331MC



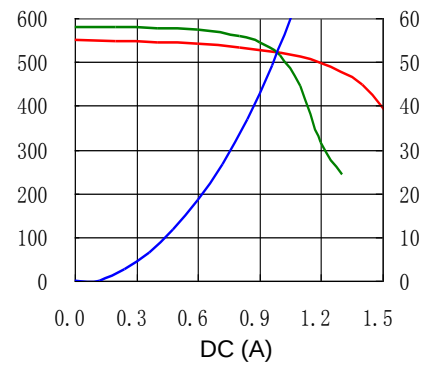
19. CDRR128NP-391MC



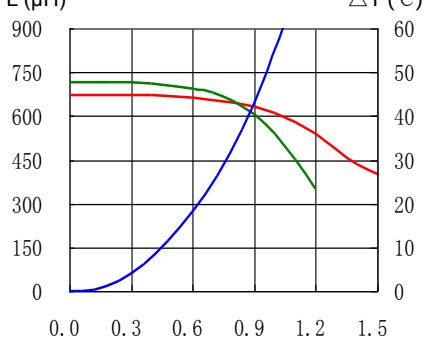
20. CDRR128NP-471MC



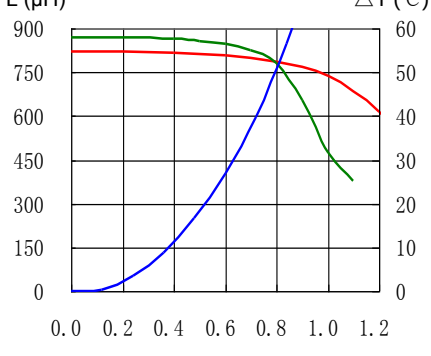
21. CDRR128NP-561MC



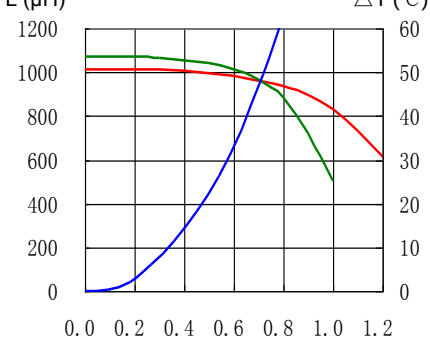
22. CDRR128NP-681MC



23. CDRR128NP-821MC



24. CDRR128NP-102MC



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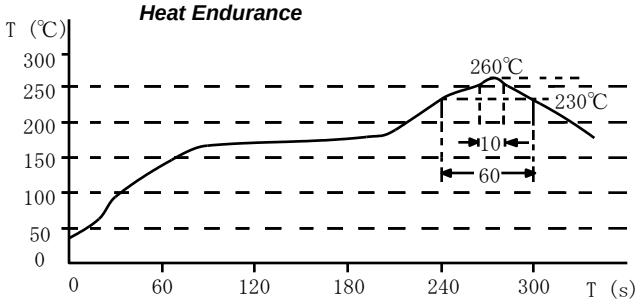
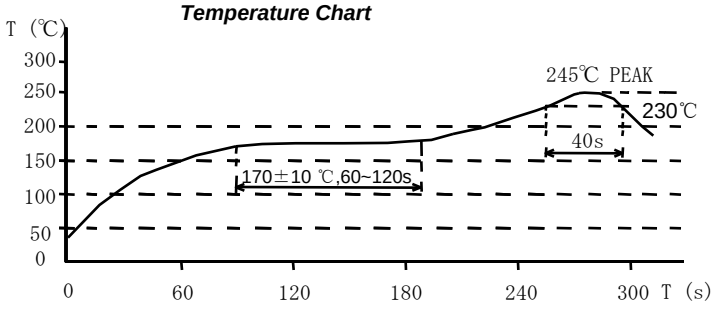
Solder Reflow Condition

Heat Endurance



Temperature Chart



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