CDRH6D23HPNP-1R8NC Datasheet

DiGi Electronics Part Number	CDRH6D23HPNP-1R8NC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH6D23HPNP-1R8NC
Description	INDUCTOR
Detailed Description	1.2 µH Shielded Drum Core, Wirewound Inductor 4.7 A 20mOhm Max Nonstandard

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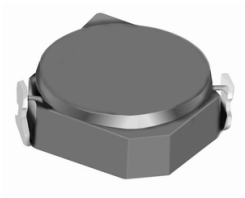
RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDRH6D23HPNP-1R8NC	Sumida America Components Inc.
Series:	Product Status:
CDRH6D23HP	Active
Type:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
1.2 µH	±30%
Current Rating (Amps):	Current - Saturation (Isat):
4.7 A	5A
Shielding:	DC Resistance (DCR):
Shielded	20mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 105°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.264" L x 0.264" W (6.70mm x 6.70mm)
Height - Seated (Max):	
0.098" (2.50mm)	

SMD Power Inductor
CDRH6D23/HP

RoHS



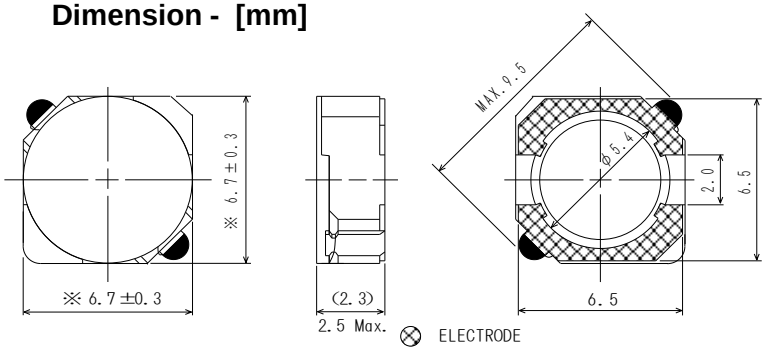
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:7.0 × 7.0 × 2.5 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

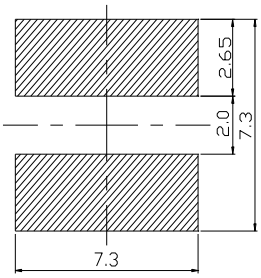
Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 2000pcs per reel

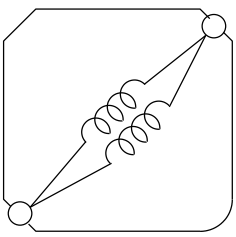
Applications
- Ideally used in MP3, PDA , HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

Dimension - [mm]

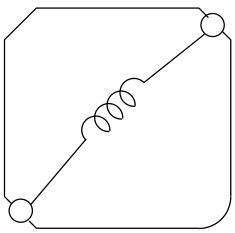


Land pattern and Schematics - [mm]





(1.2μH～8.2μH)



(10μH～100μH)

SMD Power Inductor
CDRH6D23/HP

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH6D23HPNP-1R2NC	1R2	1.2±30%	15.4(12.3)	6.20	5.20	5.30
CDRH6D23HPNP-1R8NC	1R8	1.8±30%	20.0(16.0)	5.00	4.30	4.70
CDRH6D23HPNP-2R2NC	2R2	2.2±30%	23.8(19.2)	4.40	3.80	4.10
CDRH6D23HPNP-3R3NC	3R3	3.3±30%	32.5(26.2)	4.05	3.35	3.30
CDRH6D23HPNP-4R7NC	4R7	4.7±30%	42.5(34.4)	3.40	2.85	2.80
CDRH6D23HPNP-5R6NC	5R6	5.6±30%	58.8(47.5)	3.20	2.65	2.30
CDRH6D23HPNP-6R8NC	6R8	6.8±30%	68.8(55.0)	2.78	2.34	2.20
CDRH6D23HPNP-8R2NC	8R2	8.2±30%	73.0(58.5)	2.65	2.24	2.10
CDRH6D23HPNP-100MC	100	10±20%	102.5(82.0)	2.55	2.14	1.70
CDRH6D23HPNP-150MC	150	15±20%	154.8(123.9)	2.10	1.80	1.40
CDRH6D23HPNP-220MC	220	22±20%	217.5(173.8)	1.58	1.35	1.10
CDRH6D23HPNP-330MC	330	33±20%	269.5(215.6)	1.37	1.16	1.00
CDRH6D23HPNP-470MC	470	47±20%	395.0(316.0)	1.12	0.93	0.80
CDRH6D23HPNP-560MC	560	56±20%	500.0(400.0)	0.97	0.83	0.75
CDRH6D23HPNP-680MC	680	68±20%	574.5(459.8)	0.93	0.78	0.70
CDRH6D23HPNP-820MC	820	82±20%	712.5(571.5)	0.82	0.70	0.60
CDRH6D23HPNP-101MC	101	100±20%	875.8(700.7)	0.72	0.61	0.52

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

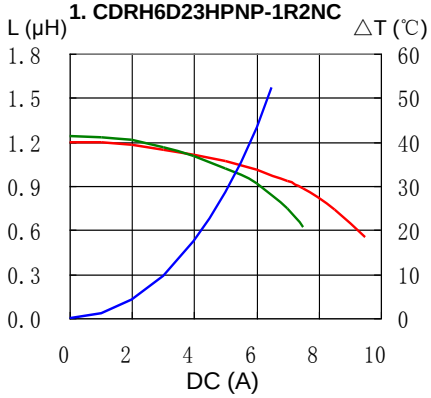
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

SMD Power Inductor
CDRH6D23/HP

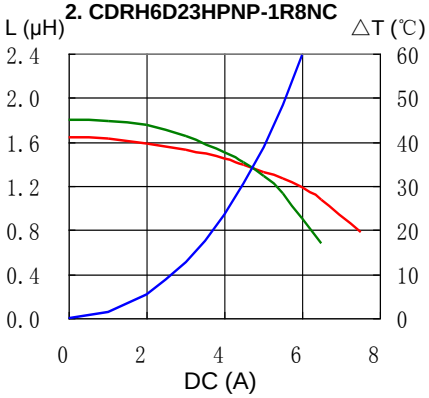
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

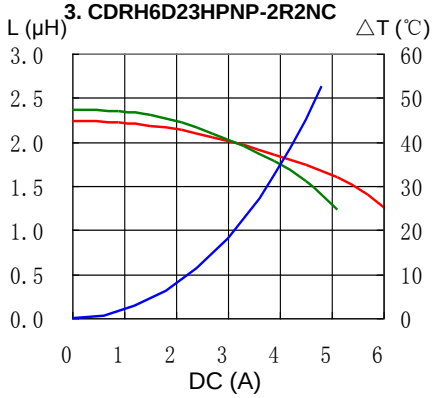
1. CDRH6D23HPNP-1R2NC



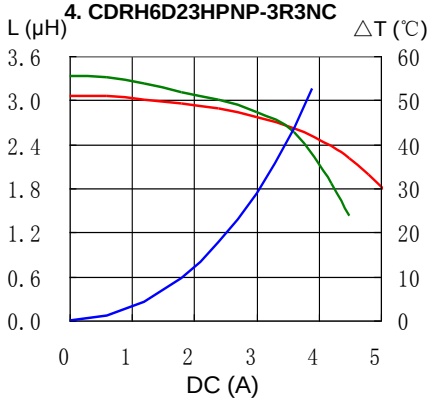
2. CDRH6D23HPNP-1R8NC



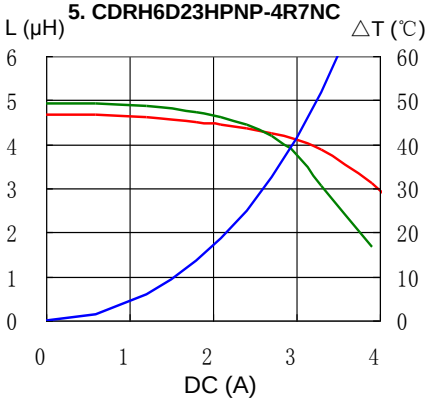
3. CDRH6D23HPNP-2R2NC



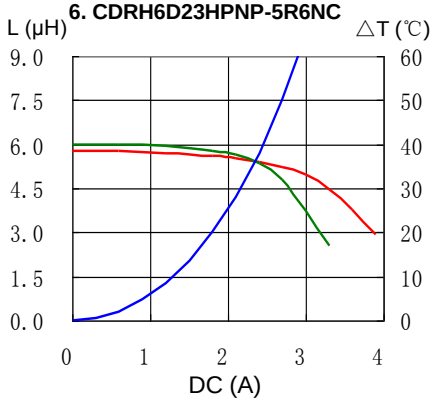
4. CDRH6D23HPNP-3R3NC



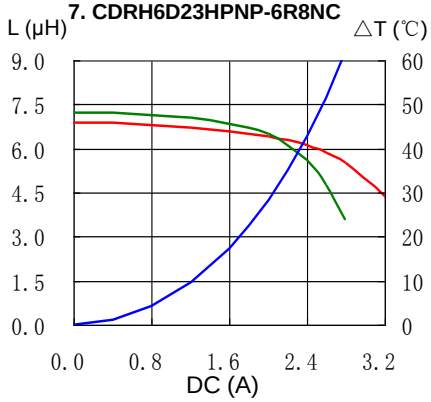
5. CDRH6D23HPNP-4R7NC



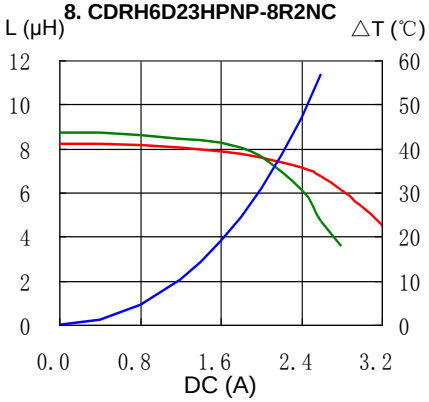
6. CDRH6D23HPNP-5R6NC



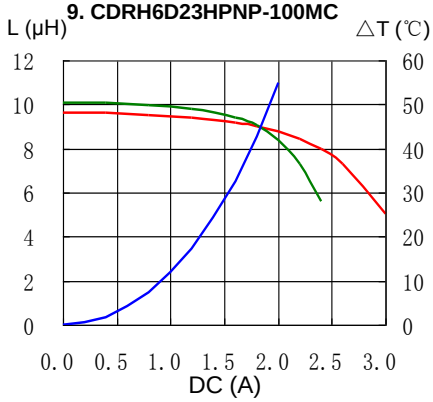
7. CDRH6D23HPNP-6R8NC



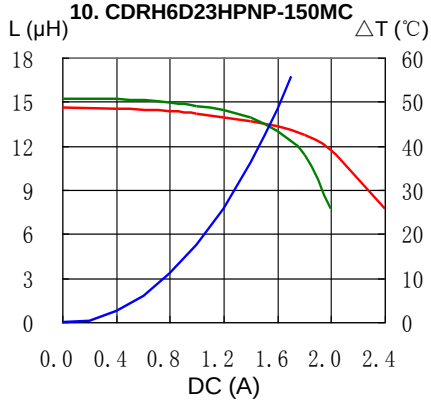
8. CDRH6D23HPNP-8R2NC



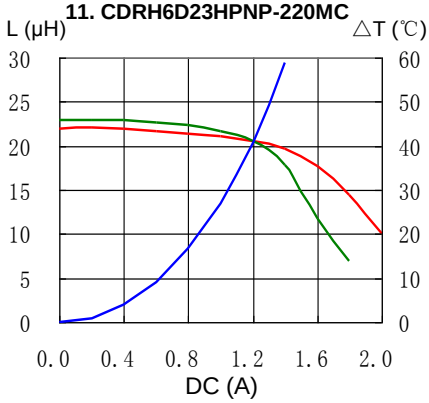
9. CDRH6D23HPNP-100MC



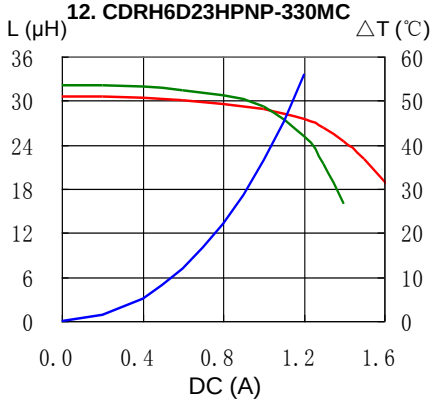
10. CDRH6D23HPNP-150MC



11. CDRH6D23HPNP-220MC



12. CDRH6D23HPNP-330MC



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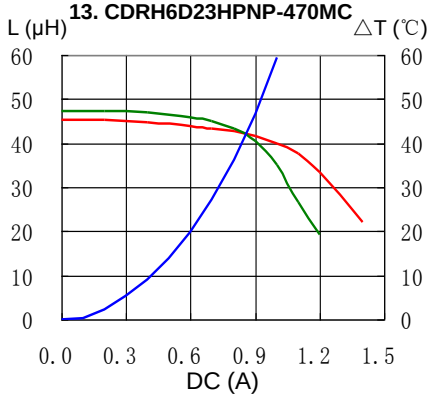
CDRH6D23/HP

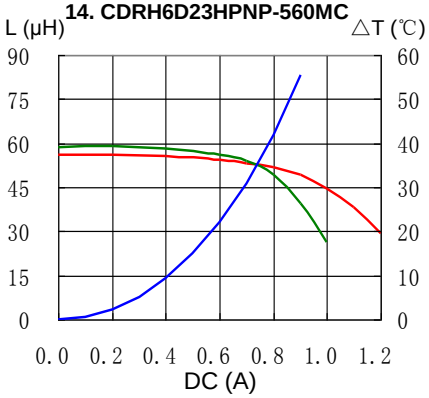
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

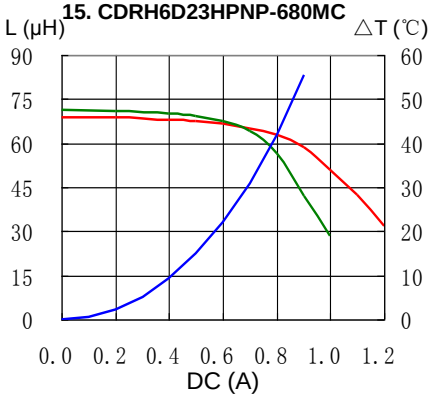
13. CDRH6D23HPNP-470MC



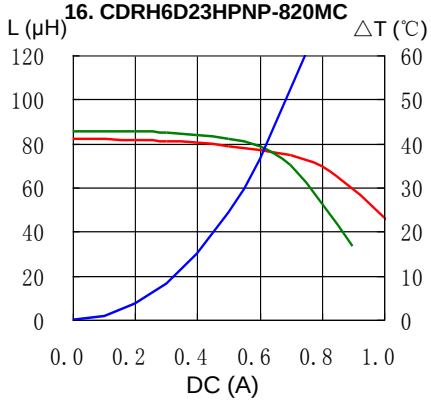
14. CDRH6D23HPNP-560MC



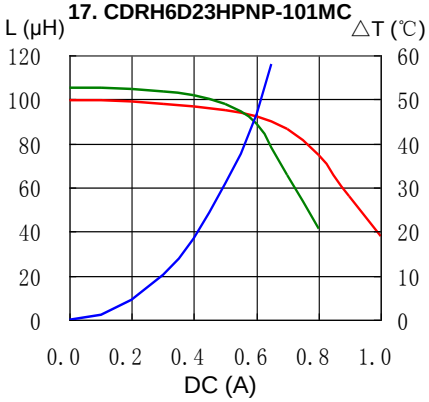
15. CDRH6D23HPNP-680MC



16. CDRH6D23HPNP-820MC

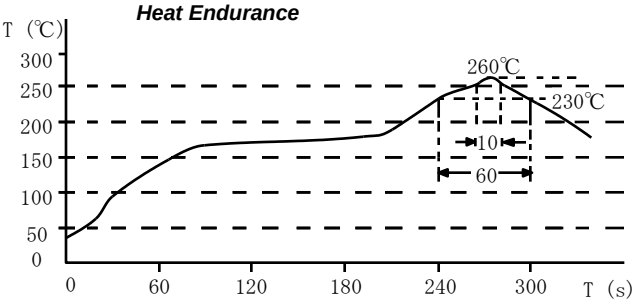


17. CDRH6D23HPNP-101MC

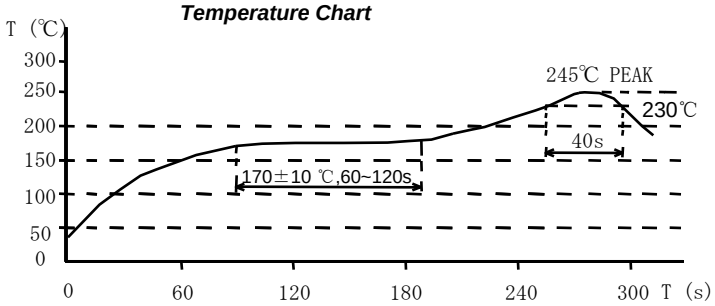


Solder Reflow Condition

Heat Endurance



Temperature Chart



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