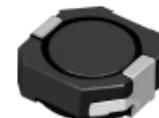


SMD POWER INDUCTORS

TLCDRH104-XXX Series



Description:

Ferrite drum core construction
 Magnetically shielded
 MSL: 1
 Magnetically shielded surface mount with high current rating
 Compact low profile
 Low resistance lower power loss

Environmental:

Operating Temperature range : -40°C to +100°C
 (including coil's self temperature rise)
 Storage temperature range : -40°C to +100°C
 RSH : 260 °C

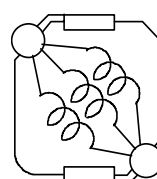
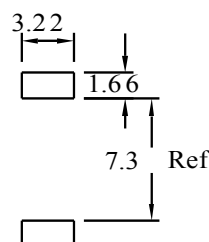
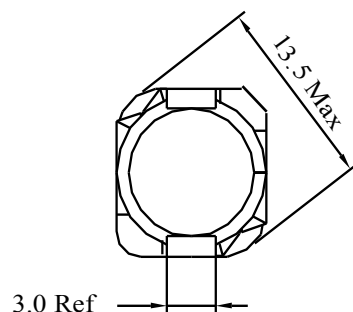
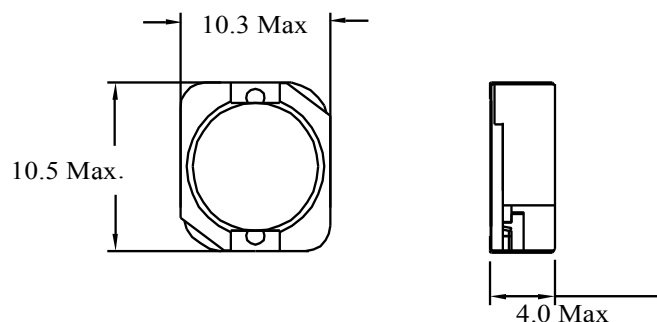
Packaging:

Carrier tape and reel packaging
 12.9" diameter reel
 1000pcs per reel

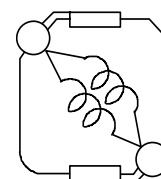
Applications:

Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc as DC-DC converter inductors

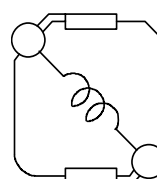
Mechanical



(1.5uH~5.2uH, 10uH)



(7.0uH, 12uH~33uH)



39uH~330uH

SMD POWER INDUCTORS

TLCDRH104-XXX Series

Electrical Specification@25°C

Part Number	L(μ H) ¹ ±30%	DCR(m Ω) Max(Typ) (at 25°C)	Saturation Current (Isat) ²	Temperature Rise Current (Idc) ³
TLCDRH104-1R5	1.5	8.1(6.0)	10.00	6.50
TLCDRH104-2R5	2.5	10.5(7.8)	7.50	6.10
TLCDRH104-3R8	3.8	13.0(9.6)	6.00	5.50
TLCDRH104-5R2	5.2	22(16)	5.50	5.40
TLCDRH104-7R0	7.0	27(20)	4.80	4.50
TLCDRH104-100	10	35(26)	4.40	3.80
TLCDRH104-120	12	46(34)	3.70	3.40
TLCDRH104-150	15	50(37)	3.60	3.10
TLCDRH104-180	18	69(51)	3.10	2.60
TLCDRH104-220	22	73(54)	2.90	2.50
TLCDRH104-270	27	88(65)	2.60	2.30
TLCDRH104-330	33	93(69)	2.30	2.20
TLCDRH104-390	39	127(94)	2.20	2.00
TLCDRH104-470	47	128(95)	2.10	1.90
TLCDRH104-560	56	188(139)	1.65	1.50
TLCDRH104-680	68	213(158)	1.50	1.42
TLCDRH104-820	82	283(218)	1.45	1.30
TLCDRH104-101	100	304(225)	1.35	1.25
TLCDRH104-121	120	375(278)	1.20	1.08
TLCDRH104-151	150	506(375)	1.15	0.85
TLCDRH104-181	180	568(421)	1.00	0.75
TLCDRH104-221	220	756(560)	0.92	0.70
TLCDRH104-271	270	853(632)	0.84	0.55
TLCDRH104-331	330	1090(810)	0.70	0.52

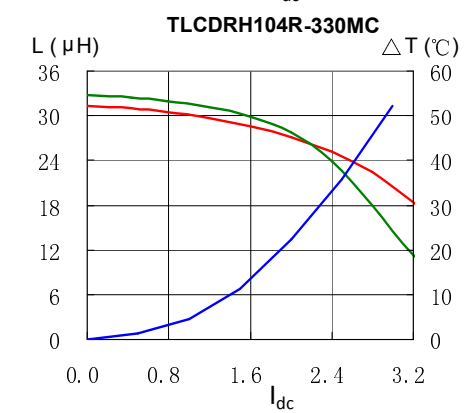
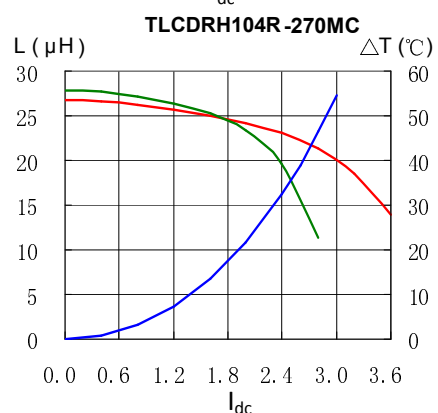
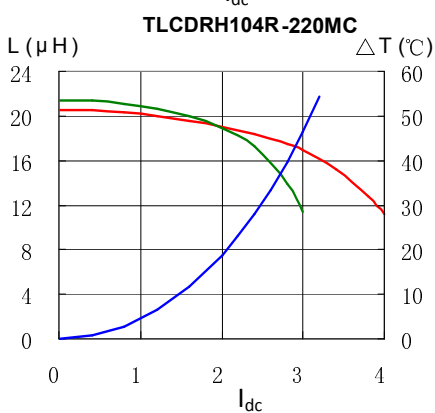
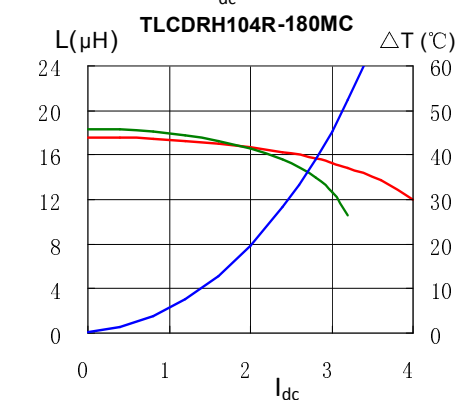
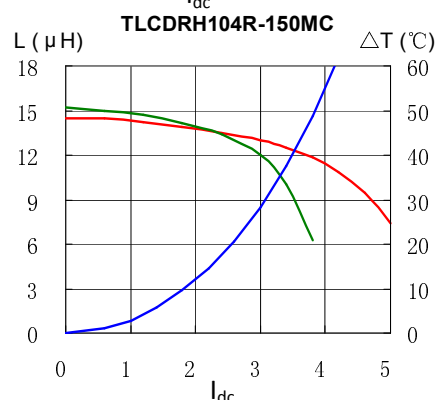
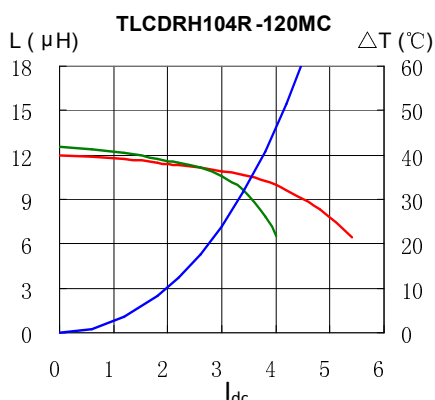
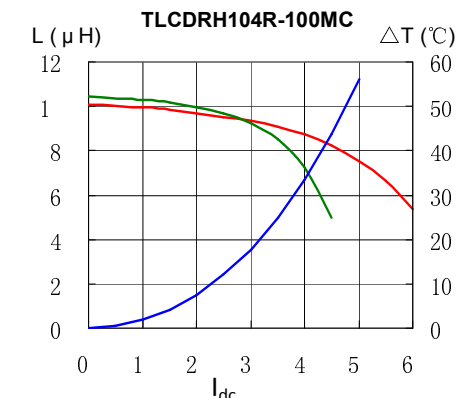
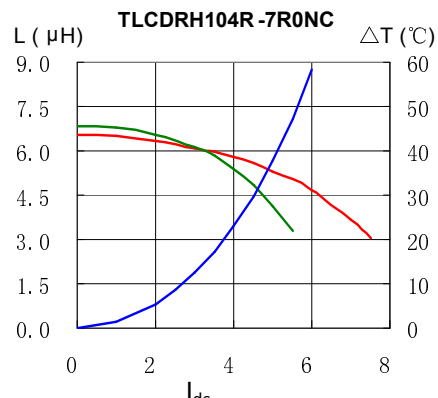
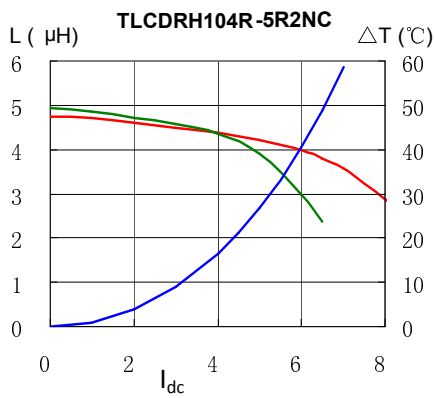
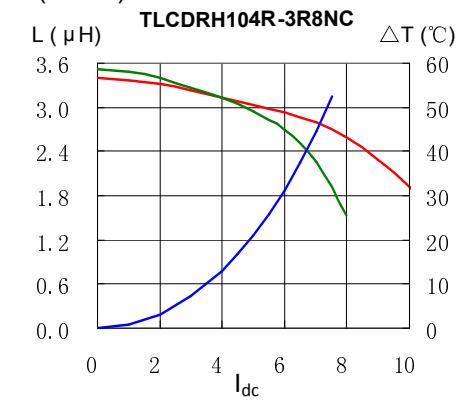
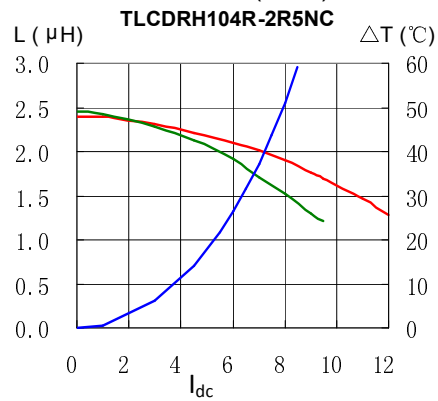
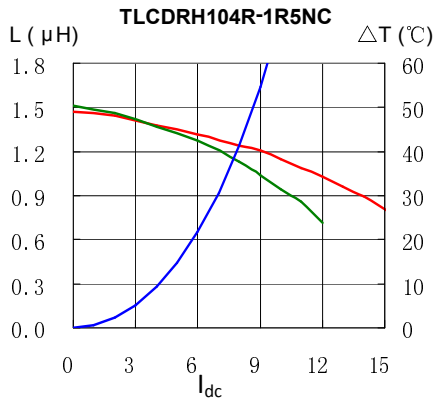
1. Inductance measured at 100KHz , 0.1V

2. Isat. : This indicates the value of DC current when the inductance decreases to 65% of it's nominal

3. Idc : The value of DC current when the temperature rise is $\Delta T=30^{\circ}\text{C}$ (Ta=25°C)

Saturation Current & Temperature Rise

— L (25°C) — L (100°C) — ΔT

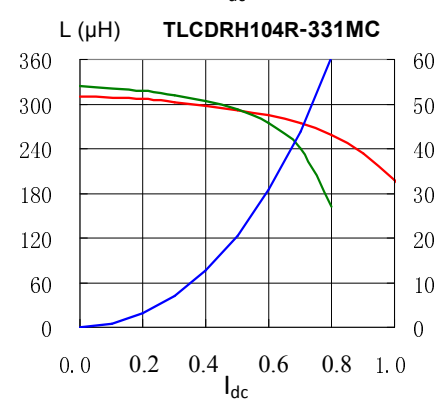
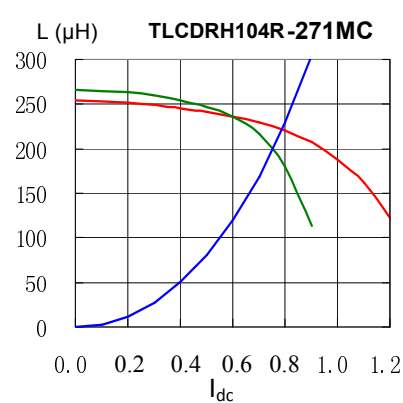
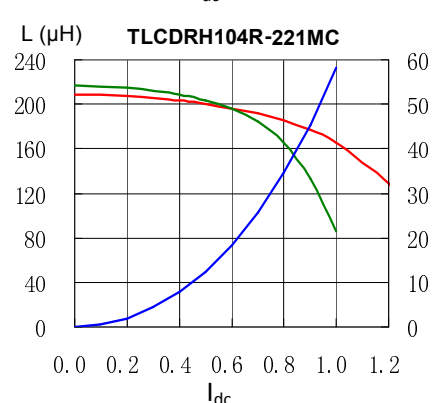
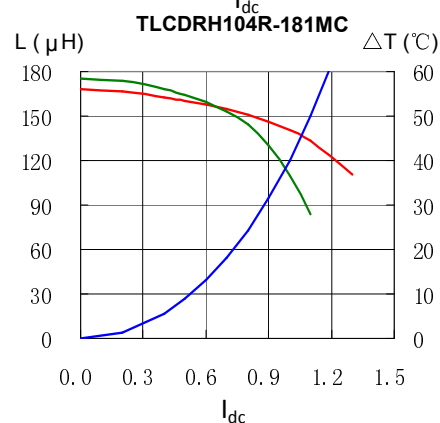
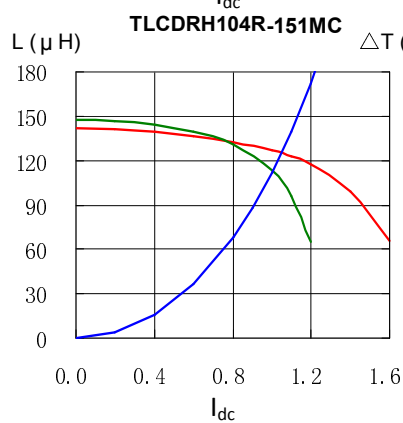
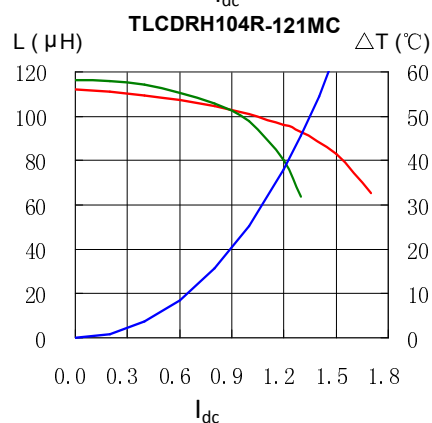
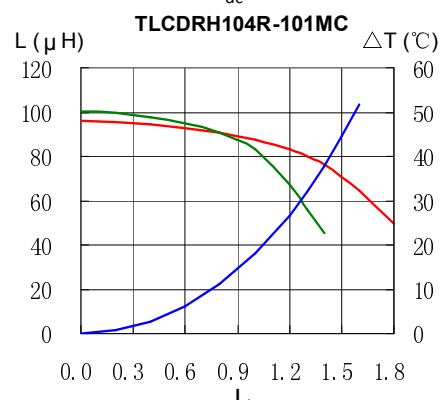
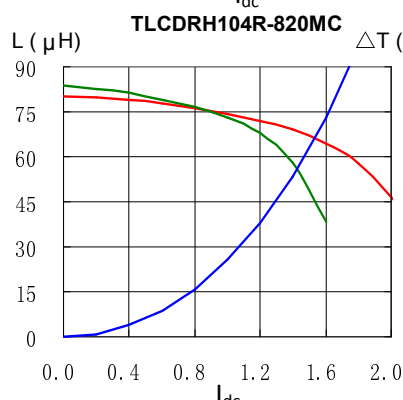
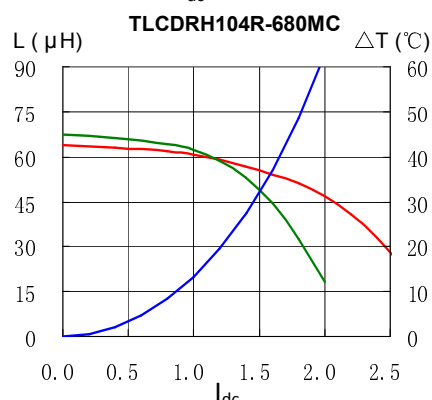
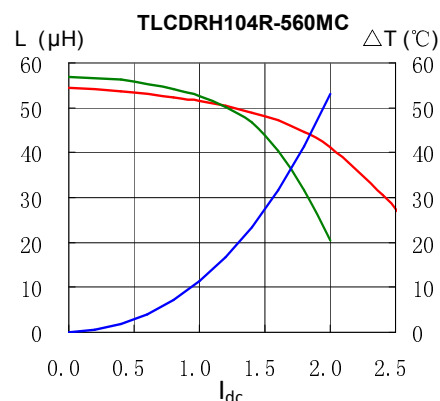
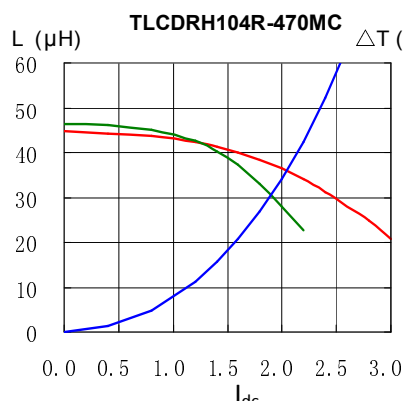
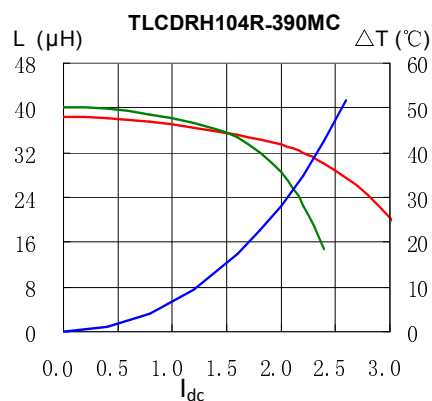


Saturation Current & Temperature Rise

— L (25°C)

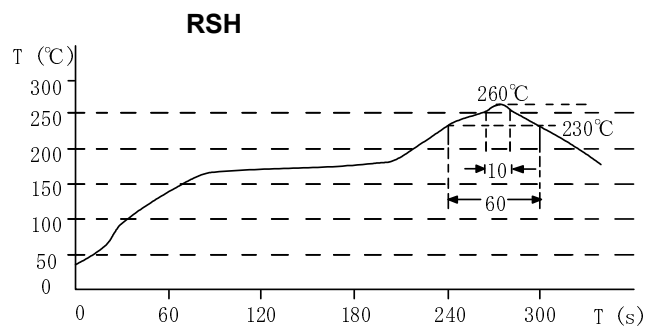
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— ΔT





Solder Reflow



Reflow Profile

