

SMD Power Inductor CDEP147



Electrical Characteristics—standard type

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at100°C)	
CDEP147NP-0R4NC-95	0R4NS	0.4μH±25%	1.18(0.98)	52.8(66.0)	45.6(57.0)	23.0
CDEP147NP-0R9MC-95	0R9MS	0.9μH±20%	1.46(1.22)	36.0(45.0)	30.8(38.5)	21.5
CDEP147NP-1R5MC-95	1R5MS	1.5μH±20%	2.02(1.69)	27.2(34.0)	22.8(28.5)	20.0
CDEP147NP-2R4MC-95	2R4MS	2.4μH±20%	3.23(2.70)	22.4(28.0)	19.2(24.0)	17.5
CDEP147NP-3R4MC-95	3R4MS	3.4μH±20%	4.97(4.14)	18.4(23.0)	16.0(20.0)	16.0
CDEP147NP-4R7MC-95	4R7MS	4.7μH±20%	6.03(5.02)	15.2(19.0)	14.2(17.8)	12.5
CDEP147NP-6R1MC-95	6R1MS	6.1μH±20%	7.80(6.50)	14.8(18.5)	12.4(15.5)	11.0
CDEP147NP-7R7MC-95	7R7MS	7.7μH±20%	9.85(8.21)	12.4(15.5)	10.6(13.2)	10.0
CDEP147NP-9R5MC-95	9R5MS	9.5μH±20%	13.31(11.1)	11.2(14.0)	9.6(12.0)	8.5

Electrical Characteristics—high power type

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at100°C)	
CDEP147NP-0R3NC-73	0R3NH	0.3μH±25%	1.18(0.98)	70.0(87.6)	59.8(74.8)	23.0
CDEP147NP-0R7MC-73	0R7MH	0.7μH±20%	1.46(1.22)	46.4(58.0)	39.2(49.0)	21.5
CDEP147NP-1R2MC-73	1R2MH	1.2μH±20%	2.02(1.69)	35.7(44.7)	30.0(37.5)	20.0
CDEP147NP-1R8MC-73	1R8MH	1.8μH±20%	3.23(2.70)	29.6(37.0)	24.0(30.0)	17.5
CDEP147NP-2R6MC-73	2R6MH	2.6μH±20%	4.97(4.14)	24.4(30.5)	20.4(25.5)	16.0
CDEP147NP-3R5MC-73	3R5MH	3.5μH±20%	6.03(5.02)	20.8(26.0)	17.2(21.5)	12.5
CDEP147NP-4R7MC-73	4R7MH	4.7μH±20%	7.80(6.50)	17.6(22.0)	16.0(20.0)	11.0
CDEP147NP-5R9MC-73	5R9MH	5.9μH±20%	9.85(8.21)	16.4(20.5)	14.0(17.5)	10.0
CDEP147NP-7R3MC-73	7R3MH	7.3μH±20%	13.31(11.1)	14.6(18.3)	12.2(15.3)	8.5

※1. Measuring condition: at 100kHz.

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

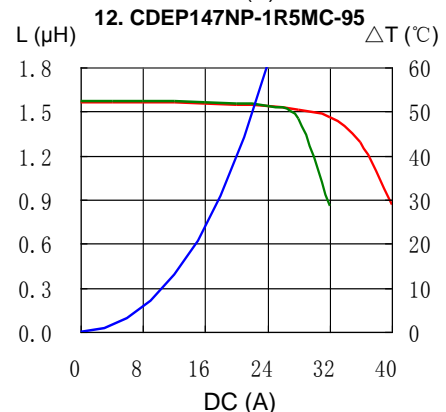
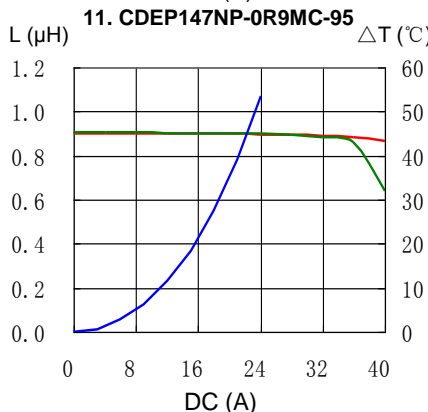
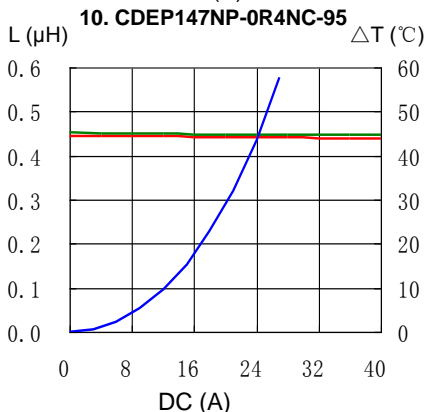
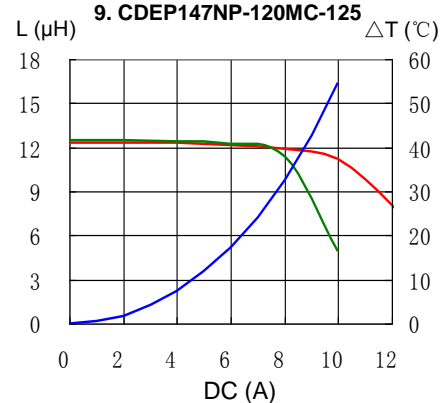
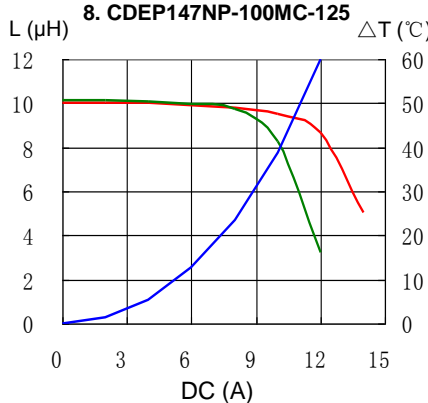
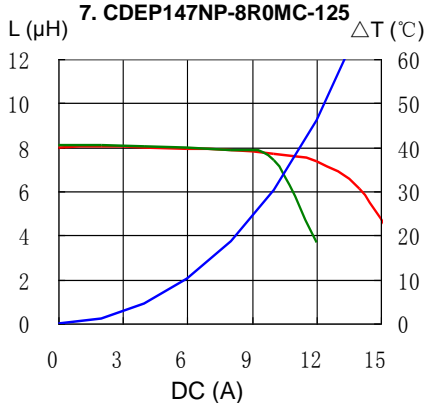
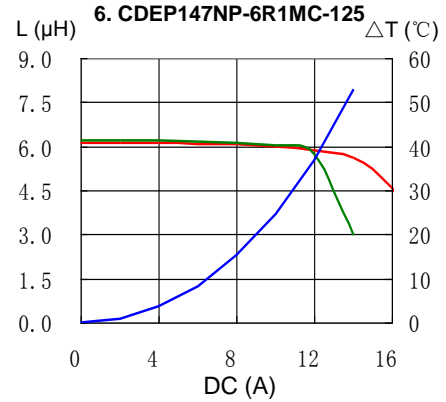
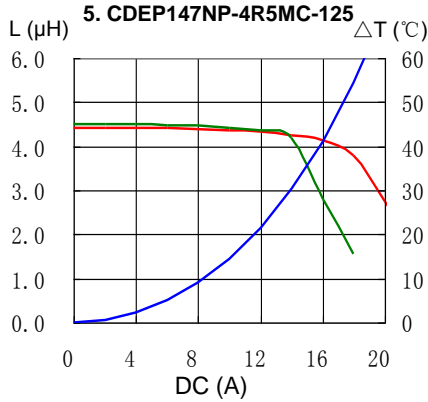
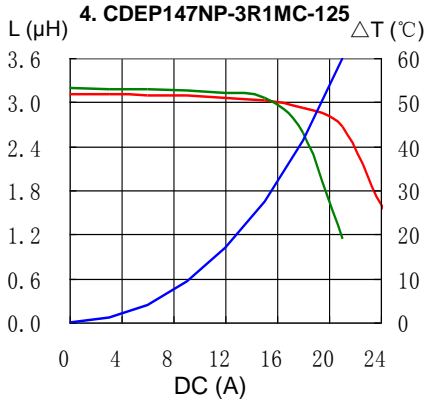
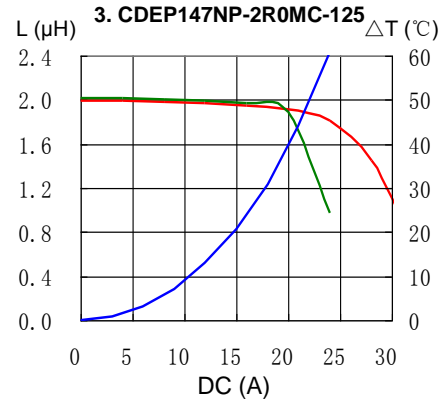
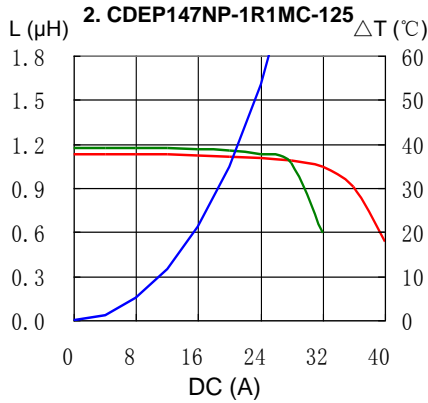
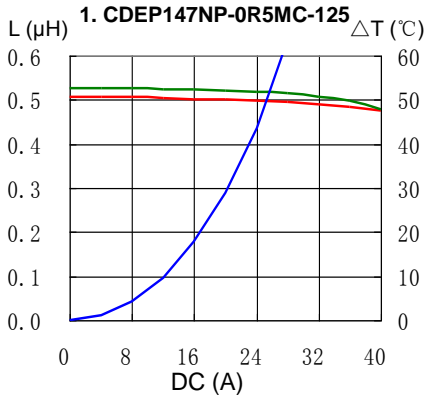
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

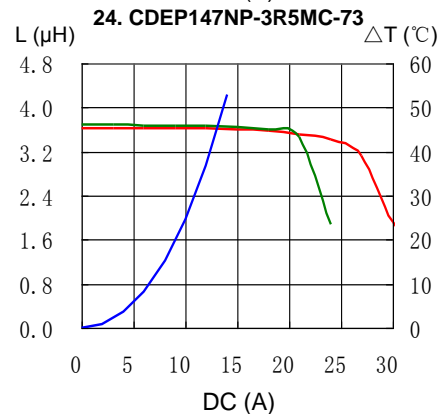
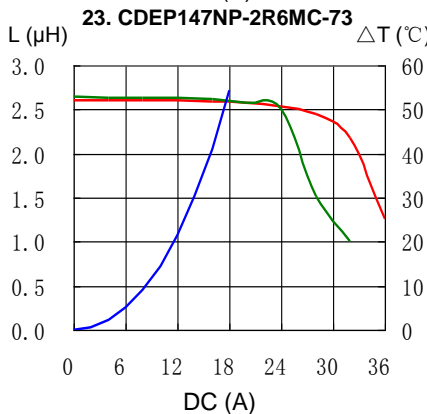
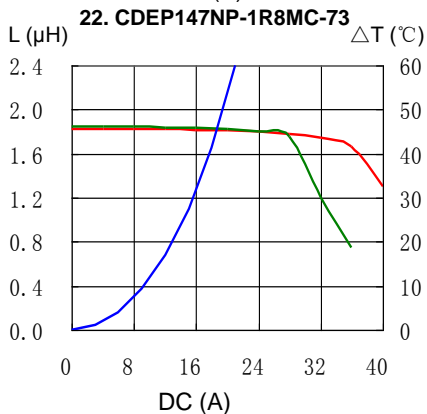
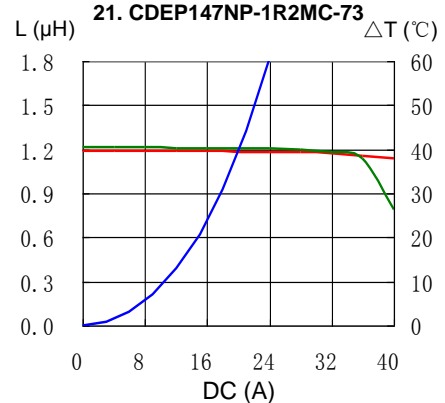
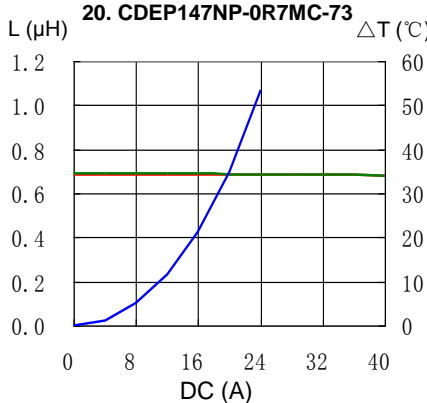
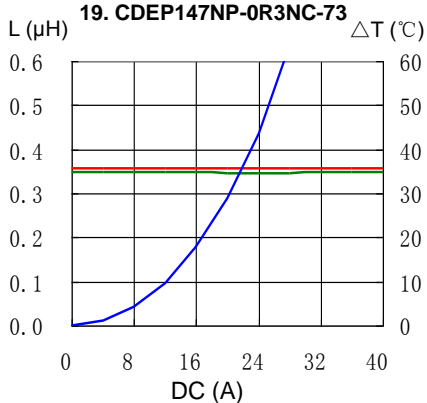
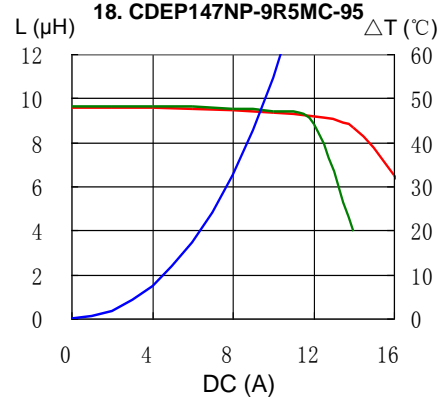
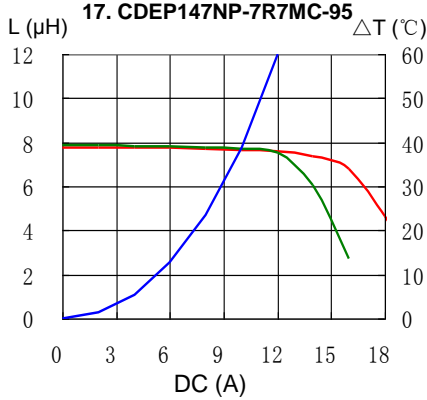
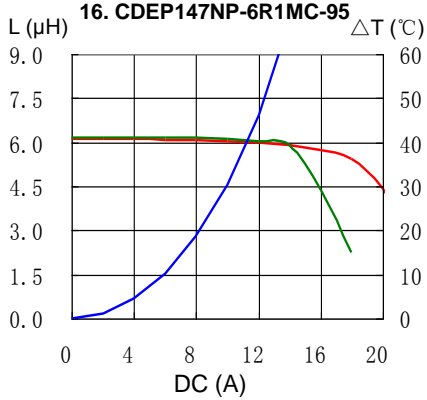
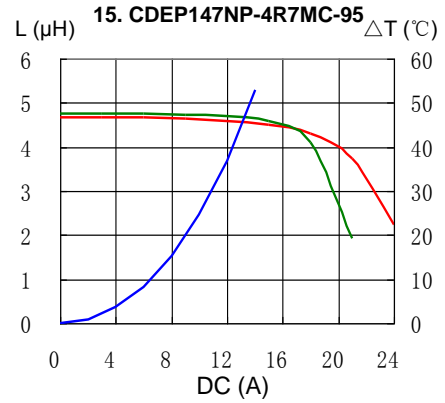
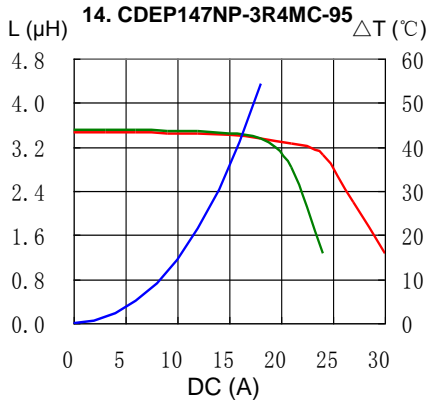
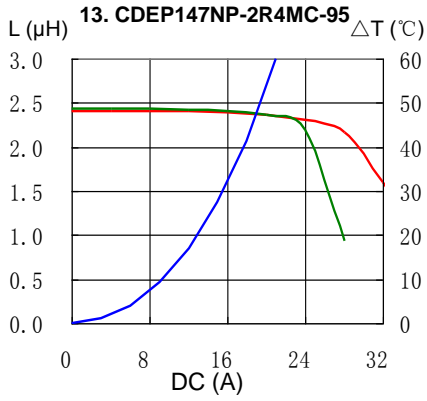
— L (20°C) — L (100°C) — ΔT





Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

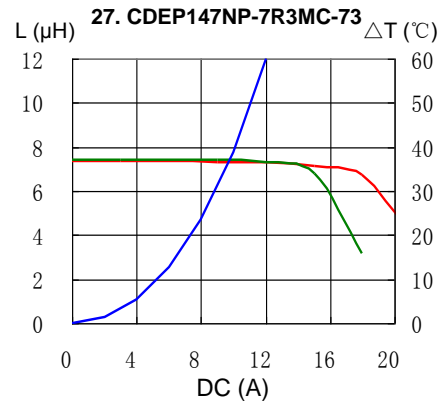
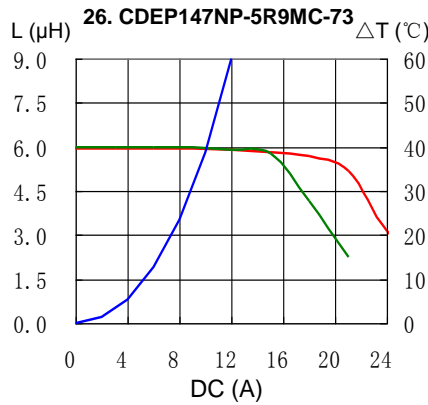
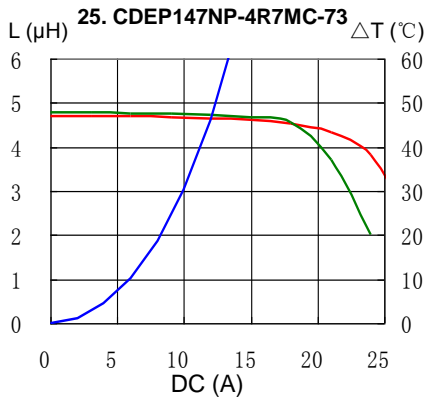


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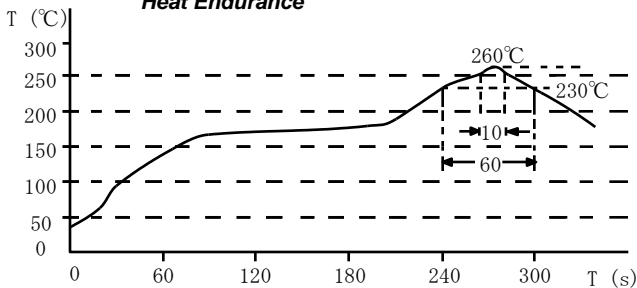
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

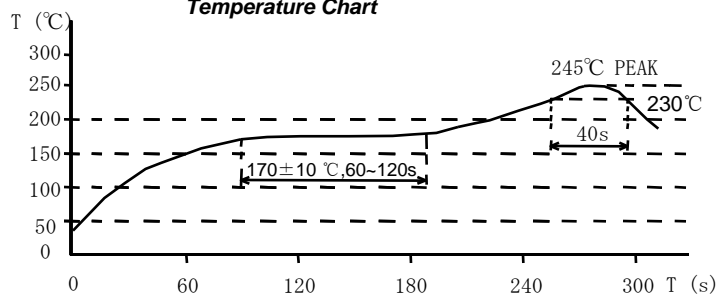


Solder Reflow Condition

Heat Endurance



Temperature Chart



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