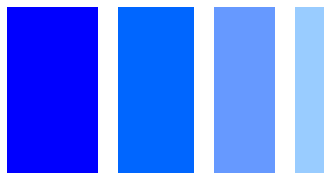


SMD Power Inductor

CDEP105



Electrical Characteristics2 – Standard Type

PART NO.	STAMP	INDUCTANCE (μ H) ※1	D.C.R. (m Ω) [MAX.] (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 $\Delta T=40^\circ\text{C}$
				(at 20°C)	(at 100°C)	
CDEP105NP-0R2NC-50	0R2NS	$0.22 \pm 30\%$	1.7(1.4)	40.0	30.9	19.0
CDEP105NP-0R4MC-50	0R4MS	$0.45 \pm 20\%$	2.4(2.0)	26.4	21.2	17.7
CDEP105NP-0R8MC-50	0R8MS	$0.8 \pm 20\%$	4.1(3.4)	20.8	16.7	13.0
CDEP105NP-1R3MC-50	1R3MS	$1.3 \pm 20\%$	5.3(4.4)	16.8	13.4	11.2
CDEP105NP-1R8MC-50	1R8MS	$1.8 \pm 20\%$	7.5(6.2)	13.8	11.0	9.0
CDEP105NP-2R5MC-50	2R5MS	$2.5 \pm 20\%$	10.5(8.7)	11.8	9.6	7.8
CDEP105NP-3R2MC-50	3R2MS	$3.2 \pm 20\%$	12.4(10.3)	10.5	8.4	7.4
CDEP105NP-4R0MC-50	4R0MS	$4.0 \pm 20\%$	18.0(15.0)	9.3	7.4	6.2
CDEP105NP-5R0MC-50	5R0MS	$5.0 \pm 20\%$	23.8(19.8)	8.4	6.7	4.9

Electrical Characteristics3 – High Power Type

PART NO.	STAMP	INDUCTANCE (μ H) ※1	D.C.R. (m Ω) [MAX.] (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 $\Delta T=40^\circ\text{C}$
				(at 20°C)	(at 100°C)	
CDEP105NP-0R1NC-32	0R1NH	$0.15 \pm 30\%$	1.7(1.4)	55.0	46.0	19.0
CDEP105NP-0R3NC-32	0R3NH	$0.3 \pm 30\%$	2.4(2.0)	40.0	33.0	17.7
CDEP105NP-0R5MC-32	0R5MH	$0.5 \pm 20\%$	4.1(3.4)	30.4	25.0	13.0
CDEP105NP-0R8MC-32	0R8MH	$0.8 \pm 20\%$	5.3(4.4)	25.2	20.7	11.2
CDEP105NP-1R2MC-32	1R2MH	$1.2 \pm 20\%$	7.5(6.2)	21.0	17.4	9.0
CDEP105NP-1R5MC-32	1R5MH	$1.5 \pm 20\%$	10.5(8.7)	18.0	15.0	7.8
CDEP105NP-2R0MC-32	2R0MH	$2.0 \pm 20\%$	12.4(10.3)	15.8	13.1	7.4
CDEP105NP-2R5MC-32	2R5MH	$2.5 \pm 20\%$	18.0(15.0)	14.0	11.7	6.2
CDEP105NP-3R0MC-32	3R0MH	$3.0 \pm 20\%$	23.8(19.8)	12.6	10.5	4.9

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% (while the tolerance is $\pm 30\%$) or 75% (while the tolerance is $\pm 20\%$) of it's nominal.

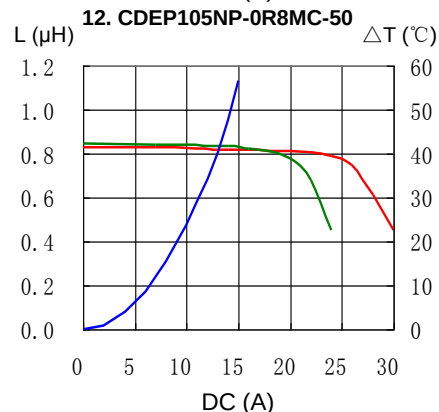
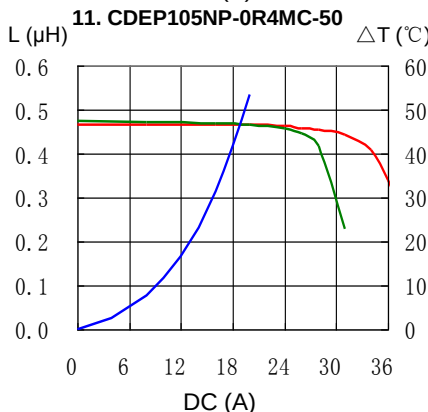
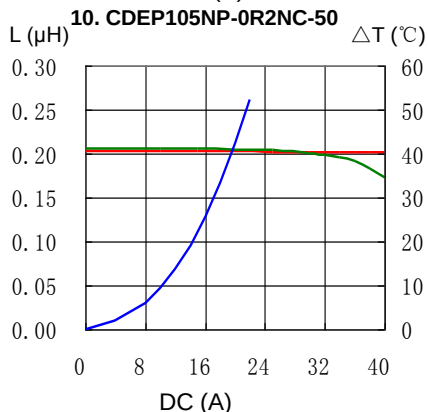
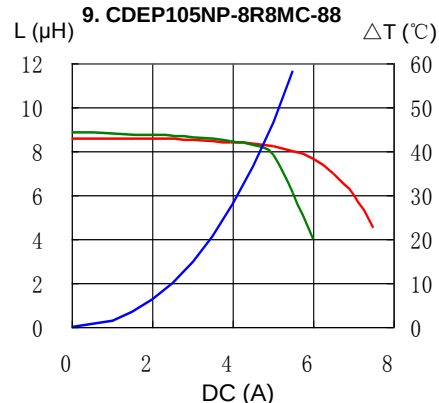
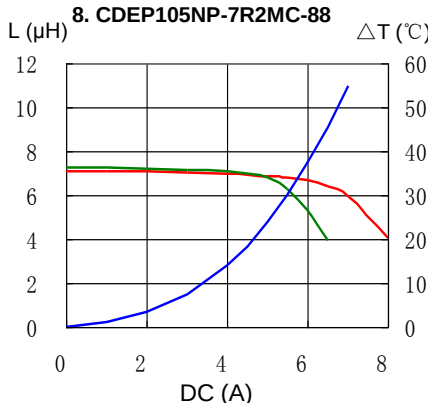
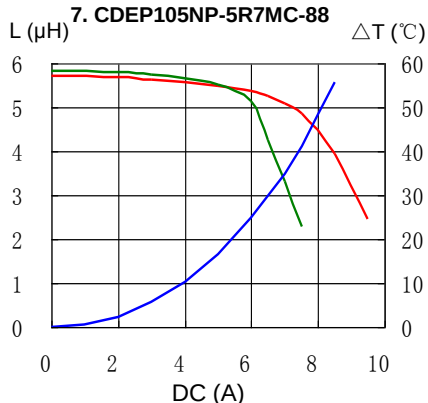
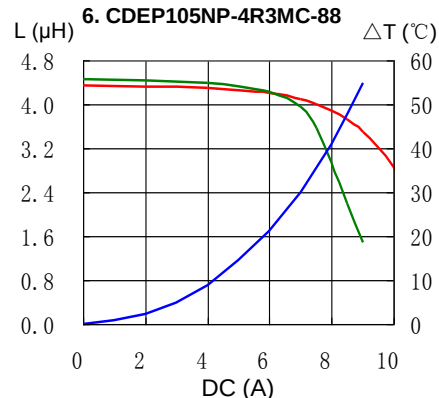
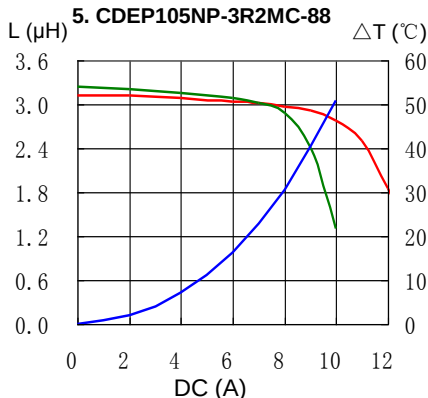
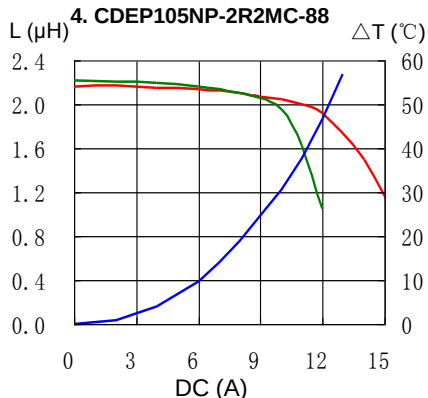
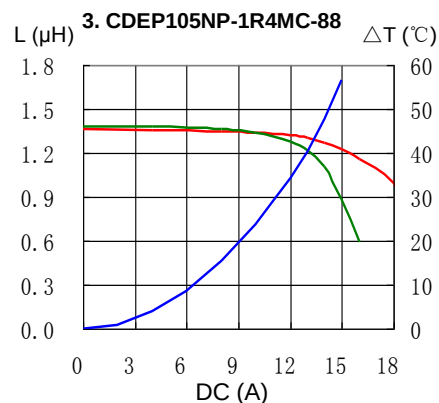
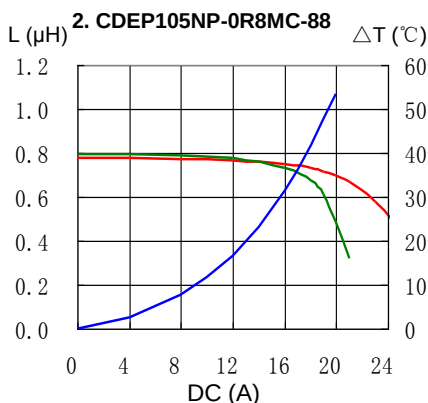
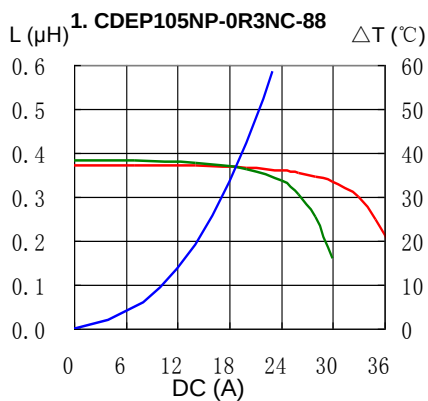
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

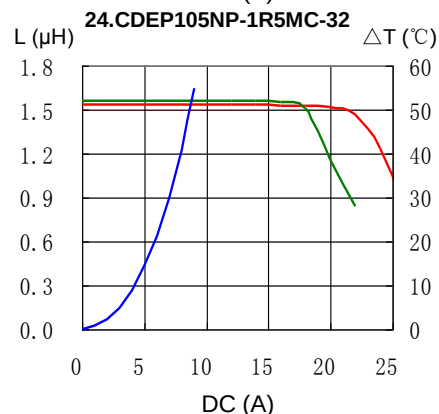
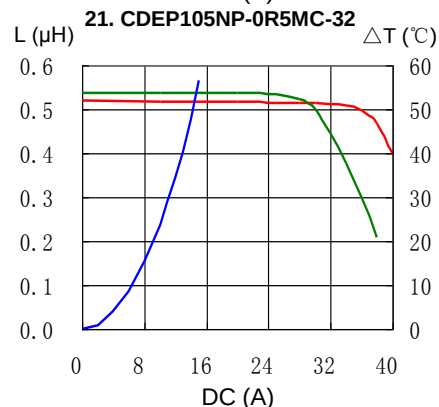
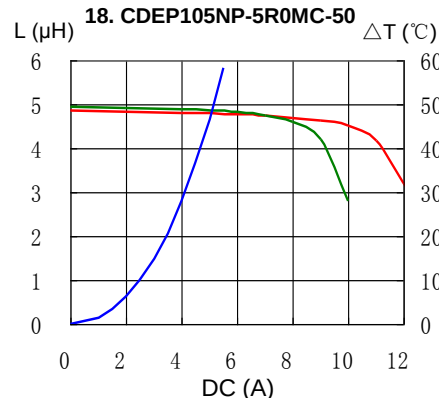
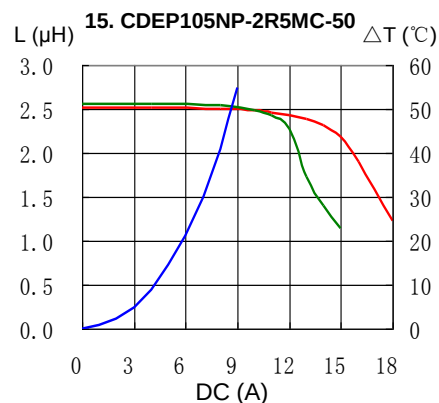
SMD Power Inductor CDEP105



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



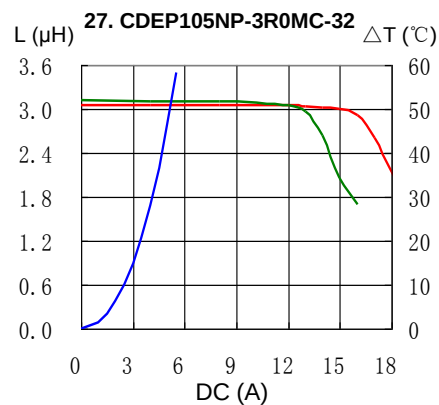
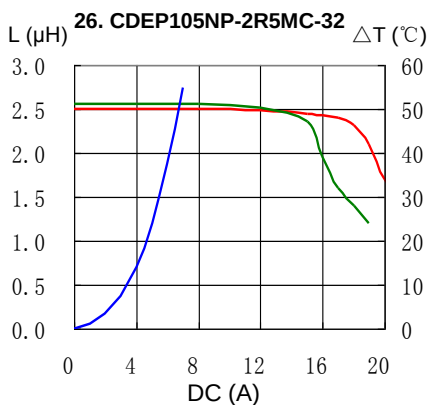
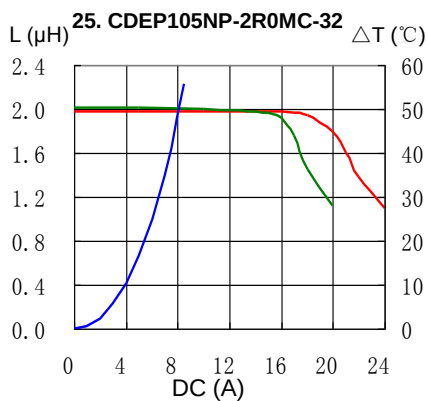


SMD Power Inductor CDEP105



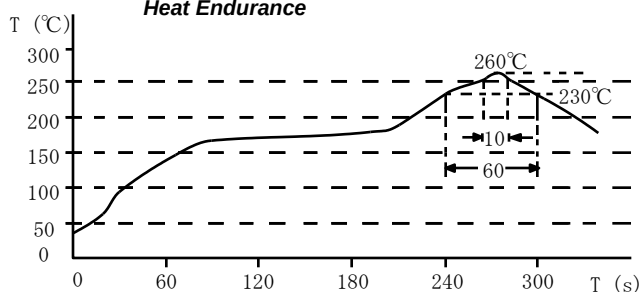
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

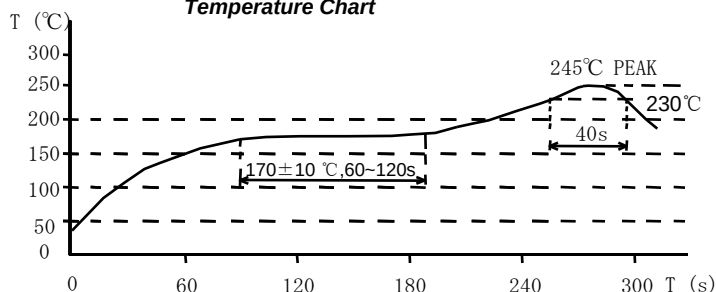


Solder Reflow Condition

Heat Endurance



Temperature Chart



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