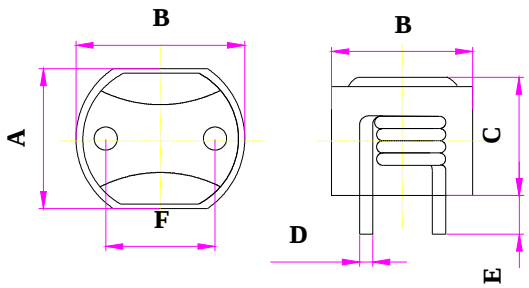
DPI1210 SERIES

ULTRA HIGH CURRENT DIP POWER INDUCTORS.

Applications :

- Desktop, and server applications.
- DC/DC converters in distributed power systems.
- VGA Card.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	F
DPI1210	10.2±0.5	12.3±0.5	By Each P/N	By Each P/N	3.4±0.5	8.0±0.5

Features :

- No air-space, Magnetic powder is full filled inside.
- Low DCR, lower loss.
- Low profile package with hight current designed.
- Magnetic shielded construction for high density board Assembly.
- Good DC Current characteristics in high frequency and high temperature.
- RoHS compliant.

Product Identification :

DPI	1210	-	1R0	M
(1)	(2)		(3)	(4)

(1) Series : **U**ltra high current **D**PI **P**ower **I**nductors.

(2) Style : **1210** is size.

(3) Inductance : **1R0** for **1.0**uH.

(4) Inductance tolerance : **M**: ± 20%.

Characteristics :

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately ΔT=40℃ without core loss.
- Operating temperature : -25℃ to 125℃ .

Test equipments :

- L test by Wayne Kerr 3260B LCR meter with Wayne Kerr 3265B Bias Current Source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃ .

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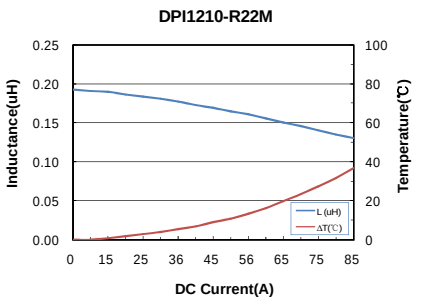
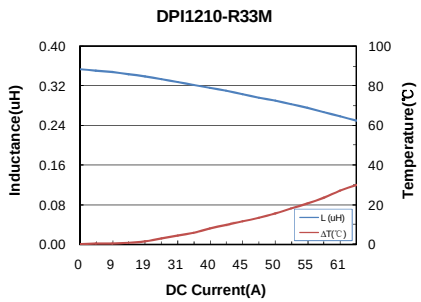
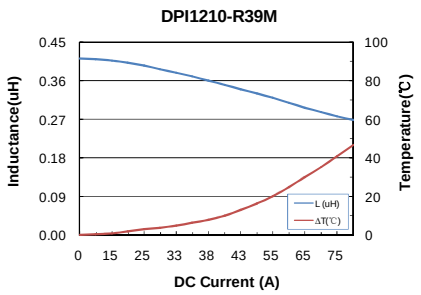
I DPI1210 series

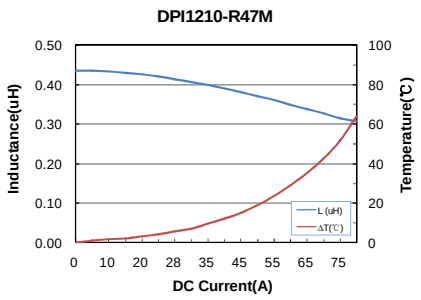
Part No.	Inductance @100kHz L_0 (uH)	DCR（mΩ）		I sat (A) Typ.	I rms (A) Typ.	C mm ±0.25	D mm ±0.25
		Typical	Maximum				
DPI1210-R22M	0.22	0.42	0.6	56.0	36.0	7.5	1.6
DPI1210-R33M	0.33	0.6	0.8	48.0	31.0	8.6	1.6
DPI1210-R39M	0.39	0.6	0.8	43.0	31.0	8.6	1.6
DPI1210-R47M	0.47	0.8	1.0	40.0	28.0	10.0	1.6
DPI1210-R56M	0.56	0.8	1.0	38.0	28.0	10.0	1.6
DPI1210-R68M	0.68	0.8	1.0	36.0	28.0	10.0	1.6
DPI1210-R80M	0.8	1.25	1.45	34.0	24.0	10.0	1.5
DPI1210-1R0M	1.0	1.5	2.0	32.0	20.0	10.0	1.3
DPI1210-1R5M	1.5	2.6	3.5	30.0	16.0	10.0	1.1
DPI1210-2R2M	2.2	3.1	5.0	24.0	13.6	10.0	1.1
DPI1210-2R8M	2.8	4.3	6.4	20.0	12.3	10.0	1.0
DPI1210-3R3M	3.3	4.8	7.7	16.0	11.2	10.0	1.0
DPI1210-4R7M	4.7	6.6	10.0	15.0	10.0	10.0	0.9

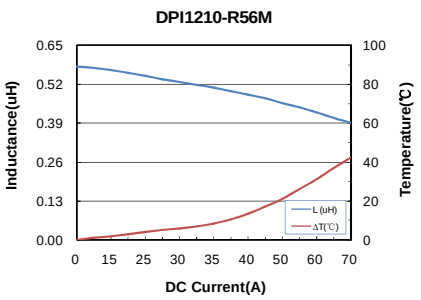
Typical performance curves :

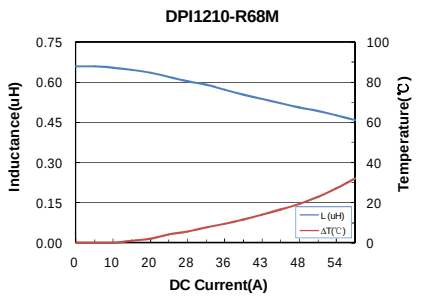


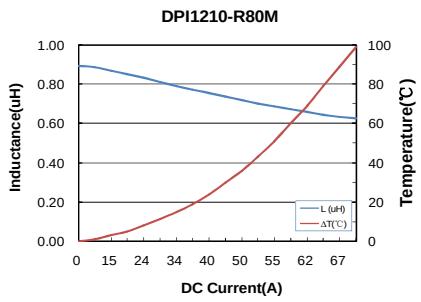


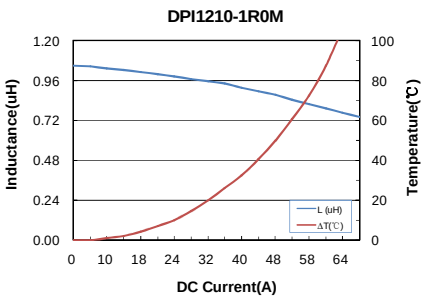


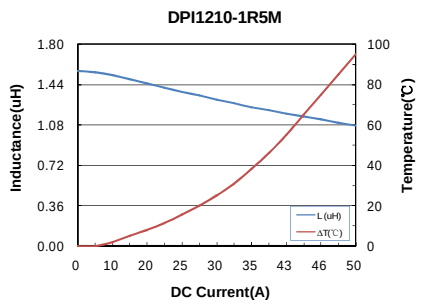












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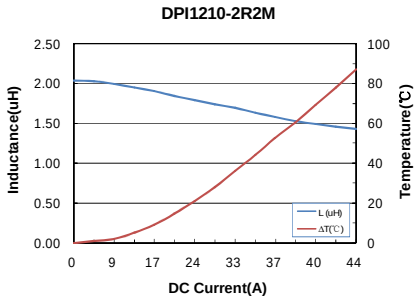
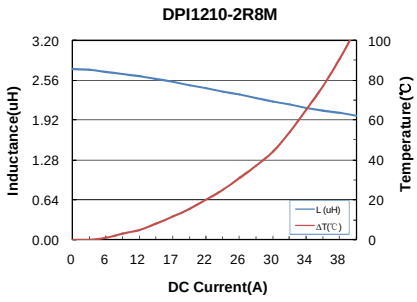
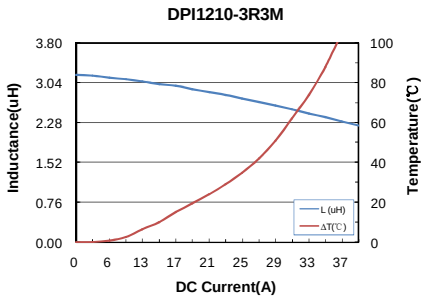
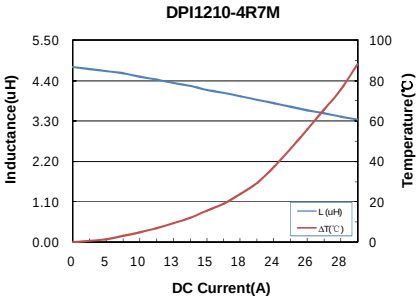
Typical performance curves :









* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

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