



SMTDRH SERIES

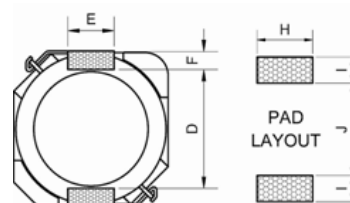
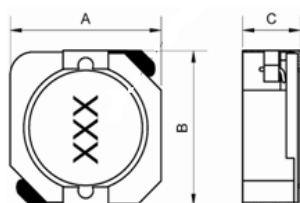
SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs .
- LCD televisions .
- Notebook PCs .
- Portable communication equipment .
- DC/DC converters,etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
DRH5D28R	6.2	6.3	3.0
DRH103R	10.3	10.4	3.0
DRH104R	10.3	10.4	4.0
DRH105R	10.3	10.4	5.0

Item	D	E	F	H	I	J
DRH5D28R	4.7	2.0	0.6	2.6	1.0	4.6
DRH103R	7.7	3.0	1.2	3.6	1.7	7.3
DRH104R	7.7	3.0	1.2	3.6	1.7	7.3
DRH105R	7.7	3.0	1.2	3.6	1.7	7.3

Features :

- Directly connected electrode on ferrite core.
- Ideal inductors for DC-DC conversion.
- High power, High saturation inductors .
- With magnetic shield against radiation .
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max.
 $\Delta T=40^{\circ}\text{C}$ (Ta=20°C)
- Operating temp. : -40°C to 105°C.

Product identification :

SMT DRH104R - 470 N

(1) (2) (3) (4)

- (1) Type : **Surface Mountable Type.**
- (2) Style : **DR** Core with **RI** shield , **104R** is size.
- (3) Inductance : Example : **470** for **47** uH.
- (4) Inductance tolerance : **N** : $\pm 30\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.


● SMTDRH series

Part No.	Induc L (μH)	DC Resistance (mΩ)Max.				I _{rms} (A) Max.				I _{sat} (A) Max.			
		5D28R	103R	104R	105R	5D28R	103R	104R	105R	5D28R	103R	104R	105R
R80N	0.8		5.7		4.3		6.50		7.50		9.00		12.0
1R5N	1.5		11.0	8.1	5.8		4.20	6.50	7.00		7.00	10.0	9.00
2R2N	2.2		16.9		7.2		4.05		6.30		5.80		7.50
2R5N	2.5	17.6		10		2.60		6.10		2.60		7.50	
3R3N	3.3	20.3	21.0		10.4	2.30	3.80		5.75	2.30	4.60		6.00
3R8N	3.8			13				5.50				6.00	
4R0N	4.0	27.0				2.10				2.10			
4R7N	4.7		30.0		12.3		3.30		4.75		4.00		5.20
5R0N	5.0	31.1				1.85				1.85			
5R2N	5.2			22				5.40				5.50	
6R0N	6.0	41.9				1.70				1.70			
6R8N	6.8		35.0		18.0		3.15		4.10		3.20		4.20
7R0N	7.0			27				4.50				4.80	
8R0N	8.0	49.9				1.50				1.50			
8R2N	8.2		50.0		20.0		2.50		4.00		3.00		3.80
100N	10	54.0	58.1	35	25.8	1.30	2.40	3.80	3.75	1.30	2.70	4.40	3.45
120N	12	71.6	72.1		32.0	1.20	2.10		3.00	1.20	2.40		3.40
150N	15	82.4	86.5	50	40.0	1.10	2.05	3.10	2.65	1.10	2.20	3.60	2.83
180N	18	101.5	116.1		46.0	1.05	1.50		2.20	1.05	2.00		2.62
220N	22	119.0	143.0	73	58.5	0.95	1.20	2.50	1.80	0.95	1.80	2.90	2.44
270N	27	146.0	175.9		65.4	0.85	1.15		1.70	0.85	1.65		2.24
330N	33	182.5	202.0	93	81.4	0.76	1.10	2.20	1.65	0.76	1.48	2.30	1.88
390N	39	209.5	268.9		103.1	0.68	1.00		1.60	0.68	1.35		1.70
470N	47	229.5	299.0	128	122.1	0.60	0.90	1.90	1.50	0.60	1.20	2.10	1.56
560N	56	305.0	325.0		144.8	0.55	0.78		1.45	0.55	1.15		1.39
680N	68	351.0	429.0	213	193.0	0.48	0.68	1.42	1.20	0.48	1.05	1.50	1.36
820N	82	418.5	494.0		219.4	0.45	0.63		0.95	0.45	0.95		1.20
101N	100	520.0	683.0	304	247.0	0.40	0.56	1.25	0.90	0.40	0.85	1.35	1.09
121N	120		754.0		298.4		0.53		0.85		0.76		1.00
151N	150		871.0	506	355.1		0.51	0.85	0.80		0.70	1.15	0.91
181N	180				393.4				0.75				0.84
221N	220			756	483.8			0.70	0.70			0.92	0.75
271N	270				632.5				0.60				0.68
331N	330			1090	780.0			0.52	0.50			0.70	0.60
391N	390				957.5				0.45				0.57
471N	470				1220.4				0.42				0.50
561N	560				1352.4				0.39				0.47
681N	680				1519.2				0.36				0.43
821N	820				1694.4				0.34				0.39
102N	1000				1946.4				0.32				0.35

Notes:

Measuring Frequency : 100kHz 0.1V.

Tolerance of Inductance : N : ± 30%.

* 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.