

Product Specification

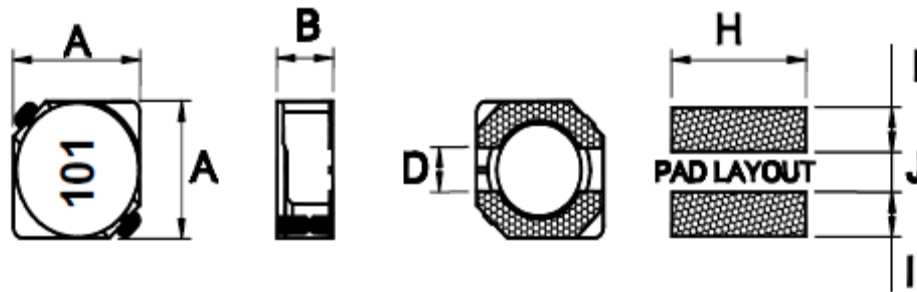


This product is certified to comply with the RoHS Directive 2002/95/EC.

LPSC Series Shielded Power Inductor

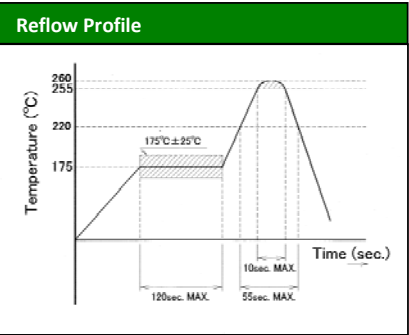


- Magnetically shielded construction
- High current rating
- Low cost



Dimensions

Codes	A max	B max	C max.	D Ref.	H Ref.	I Ref.	J Ref.	Reel Qty
LPSC4D18	5.0	5.0	2.0	1.5	5.3	1.9	1.5	2000
LPSC4D28	5.0	5.0	3.0	1.5	5.3	1.9	1.5	2000
LPSC5D18	6.0	5.0	2.0	2.0	6.3	2.15	2.0	2000
LPSC6D28	7.0	7.0	3.0	2.0	7.3	2.65	2.0	1500



Ordering Code Guide:

Series Code	Tolerance	Inductance
LPSC0502	N: ±30%	1R0: 1.0uH
		100: 10.0uH
		101: 100.0uH

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LPSC Series Shielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPSC4D18		LPSC4D28	
			DCR (mΩ) max.	I (A) max.	DCR (mΩ) max.	I (A) max.
1R0	1.0	N	45	1.72	24	2.56
2R2	2.2	N	75	1.32	32	2.04
3R3	3.3	N	110	1.04	50	1.57
4R7	4.7	N	162	0.84	72	1.32
6R8	6.8	N	-	-	109	1.12
8R2	8.2	N	245	0.68	-	-
100	10.0	N	200	0.61	128	1.00
120	12.0	N	210	0.56	-	-
150	15.0	N	240	0.50	149	0.76
180	18.0	N	338	0.48	166	0.72
220	22.0	N	397	0.41	235	0.70
270	27.0	N	441	0.35	261	0.58
330	33.0	N	694	0.32	331	0.56
390	39.0	N	-	-	384	0.50
470	47.0	N	922	0.28	587	0.48
560	56.0	N	-	-	625	0.41
680	68.0	N	1300	0.24	699	0.35
820	82.0	N	1560	0.22	915	0.32
101	100.0	N	1730	0.20	1020	0.29

Inductance Code	L (uH)	Tolerance	LPSC5D18		LPSC6D28	
			DCR (mΩ) max.	I (A) max.	DCR (mΩ) max.	I (A) max.
1R0	1.0	N			12	6.15
2R2	2.2	N			18	4.80
3R0	3.0		-	-	24	3.00
4R1	4.1	N	57	1.95	-	-
4R7	4.7	N			29	2.50
5R0	5.0	N	-	-	31	2.40
5R4	5.4	N	76	1.60	-	-
6R0	6.0	N	--	-	35	2.25
6R2	6.2	N	96	1.40	-	-
8R6	8.6	N	-	-	58	1.85
8R9	8.9	N	116	1.25	-	-
100	10.0	N	124	1.20	65	1.70
120	12.0	N	153	1.10	-	-
150	15.0	N	196	0.97	84	1.40
180	18.0	N	210	0.85	95	1.32
220	22.0	N	290	0.80	128	1.20
270	27.0	N	330	0.75	-	-
330	33.0	N	385	0.65	165	0.97
390	39.0	N	520	0.57	-	-
470	47.0	N	595	0.54	238	0.80
560	56.0	N	665	0.50	277	0.73
680	68.0	N	840	0.43	304	0.65
820	82.0	N	978	0.41	390	0.60
101	100.0	N	1200	0.36	535	0.54

Test frequency: 100kHz

I: DC current at which either the inductance drops 35% from its value with no current or that causes a 40°C temperature rise above 25°C ambient

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