

Product Specification

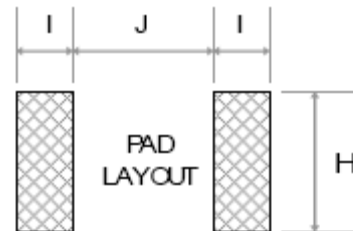
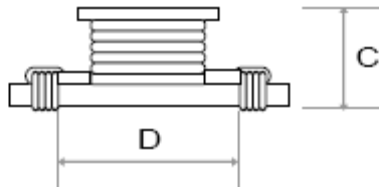
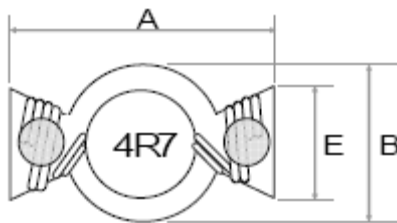


This product is certified to comply with the RoHS Directive 2002/95/EC.

LPUC Series Unshielded Power Inductor

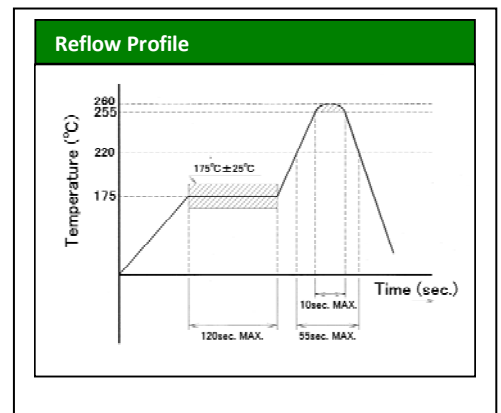


- High current rating
- Low cost
- Ideal for dc-dc converters
- Very low resistance
- High saturation current



Dimensions

Codes	A max	B max	C max	D Ref.	E Ref.	H Ref.	I Ref.	J Ref.	Reel Qty
LPUC1608	7.5	5.2	3.2	4.6	2.5	4.0	2.0	4.0	1500
LPUC1813	9.0	6.1	5.0	5.8	3.0	5.0	2.0	5.0	1000
LPUC3316	13.2	9.9	6.35	9.5	4.5	6.5	2.3	9.0	1000
LPUC4920	19.4	13.3	6.8	12.7	6.6	8.0	3.8	11.7	350
LPUC5022	22.2	15.0	8.0	14.6	7.7	10.0	4.3	13.5	250



Ordering Code Guide:

Series Code	Tolerance	Inductance
LPUC1608	M: ±20%	1R0: 1.0uH
	P: +40, -20%	100: 10.0uH
		101: 100.0uH

Issue No. 1

Product Specification



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LPUC Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUC1608			LPUC1813		
			DCR (Ω) max	I sat (A)	I rms (A)	DCR (Ω) max	I sat (A)	I rms (A)
R47	0.47	P	0.025	7.7	6.0	0.010	7.7	6.0
1R0	1.0	P	0.050	2.9	2.9	0.018	5.3	4.4
1R5	1.5	P	0.050	2.6	2.8	0.020	4.5	4.2
2R2	2.2	M	0.070	2.3	2.4	0.037	3.5	3.1
3R3	3.3	M	0.080	2.0	2.0	0.046	3.0	2.9
4R7	4.7	M	0.090	1.5	1.5	0.055	2.6	2.2
6R8	6.8	M	0.130	1.2	1.4	0.090	2.2	1.7
100	10.0	M	0.160	1.1	1.1	0.111	1.9	1.5
150	15.0	M	0.230	0.9	1.0	0.175	1.5	1.2
220	22.0	M	0.370	0.7	0.8	0.255	1.2	1.0
330	33.0	M	-	-	-	0.367	0.99	0.82
470	47.0	M	-	-	-	0.474	0.87	0.72
680	68.0	M	-	-	-	0.750	0.67	0.58
101	100	M	-	-	-	1.110	0.53	0.47

Inductance Code	L (uH)	Tolerance	LPUC3316			LPUC4920		
			DCR (Ω) max	I sat (A)	I rms (A)	DCR (Ω) max	I sat (A)	I rms (A)
R47	0.47	M	0.005	10.6	11.4	0.030	25.1	16.0
1R0	1.0	M	0.007	9.3	9.9	0.040	15.3	12.5
1R5	1.5	M	0.009	8.3	7.9	0.060	12.0	10.0
2R2	2.2	M	0.011	7.2	6.1	0.080	10.2	9.2
3R3	3.3	M	0.013	6.5	5.1	0.090	9.3	8.0
4R7	4.7	M	0.017	5.5	4.2	0.012	7.7	6.5
6R8	6.8	M	0.021	5.0	3.6	0.019	6.2	5.8
100	10.0	M	0.028	4.3	3.3	0.027	5.2	4.3
150	15.0	M	0.041	3.5	2.4	0.032	4.3	3.9
220	22.0	M	0.062	2.8	2.0	0.050	3.7	3.1
330	33.0	M	0.092	2.1	1.7	0.069	3.0	2.4
470	47.0	M	0.139	1.7	1.4	0.109	2.4	1.9
680	68.0	M	0.179	1.5	1.2	0.156	2.0	1.6
101	100	M	0.271	1.2	0.95	0.206	1.8	1.4

Inductance Code	L (uH)	Tolerance	LPUC5022		
			DCR (Ω) max	I sat (A)	I rms (A)
R47	0.47	M	0.002	51.7	
1R0	1.0	M	0.003	37.8	
1R5	1.5	M	0.004	28.9	
2R2	2.2	M	0.005	23.7	
3R3	3.3	M	0.006	20.2	
4R7	4.7	M	0.010	15.6	
6R8	6.8	M	0.015	14.1	
100	10.0	M	0.020	11.5	
150	15.0	M	0.030	9.1	
220	22.0	M	0.040	7.6	
330	33.0	M	0.060	6.1	
470	47.0	M	0.074	5.2	
680	68.0	M	0.120	4.3	-
101	100	M	-0.170	3.6	-

Issue No. 1