

Product Specification



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

LPSM Series Shielded Power Inductor

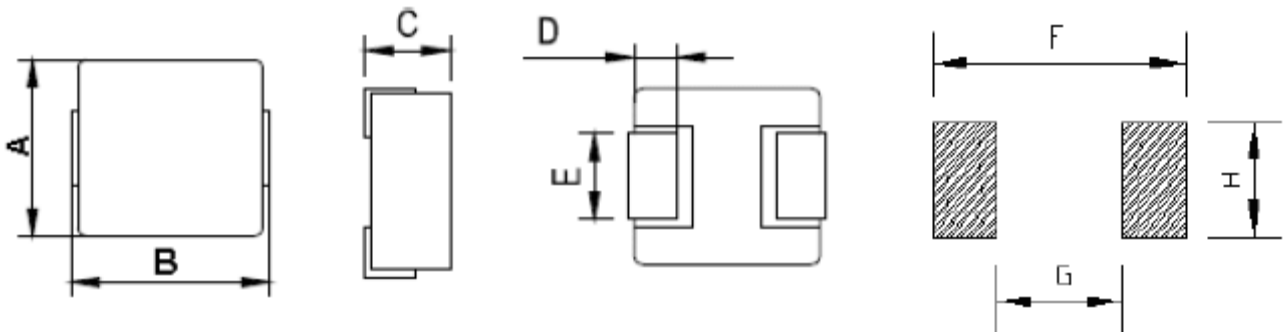


Applications

- Laptop/Desktop/Notebook Computers
- DC/DC Converters, etc.

Features

- Small size, low height
- Industry standard footprint
- Suitable for large currents
- Operating temperature range -55 ~+125°C
- Low profile, Low DCR



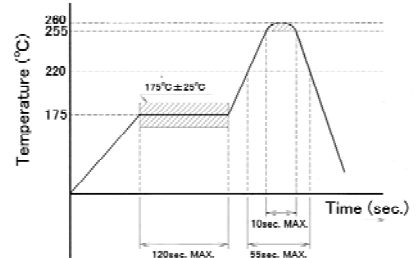
Dimensions (mm)

Codes	A	B	C Max.	D	E	F	G	H
LPSM0420	4.0±0.2	4.8±0.2	1.8±0.2	0.8±0.2	1.5±0.3	5.2	2.2	2.5
LPSM0530	4.9±0.2	5.8±0.2	2.8±0.2	1.0±0.2	1.5±0.3	7.0	3.0	2.5
LPSM0620	6.6±0.2	7.2±0.3	2.2±0.2	1.6±0.2	3.0±0.3	8.4	3.7	3.5
LPSM0630	6.6±0.2	7.2±0.3	2.8±0.2	1.6±0.2	3.0±0.3	8.4	3.7	3.5
LPSM1040	10.0±0.3	11.1±0.35	3.8±0.2	2.0±0.2	3.0±0.5	13.6	5.4	4.1
LPSM1350	12.8±0.2	13.45±0.35	4.8±0.2	2.0±0.2	3.8±0.5	14.5	8.0	5.0

Ordering Code Guide:

Series Code	Tolerance	Inductance
LPSM0420	M±20%	1R0: 1.0uH
		100: 10.0uH
		101: 100uH

Reflow Profile



Issue No. 1 21/02/11

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Code	Inductance		Test Condition	LPSM0420		LPSM0530		LPSM0620	
	L (uH)	Tolerance		DCR (mΩ) max	IDC (A)	DCR (mΩ) max	IDC (A)	DCR (mΩ) max	IDC (A)
R10	0.10	M	100kHz, 0.25V	4.0	12.0	-	-	1.7	30.0
R20	0.20	M	100kHz, 0.25V	-	-	-	-	2.8	25.0
R22	0.22	M	100kHz, 0.25V	6.6	9.0	-	-	3.2	21.0
R47	0.47	M	100kHz, 0.25V	14.0	7.0	-	-	5.5	15.0
R56	0.56	M	100kHz, 0.25V	14.5	6.0	-	-	6.5	13.0
R68	0.68	M	100kHz, 0.25V	-	-	12.0	8.5	-	-
R81	0.81	M	100kHz, 0.25V	-	-	-	-	9.5	11.0
1R0	0.47	M	100kHz, 0.25V	27.0	4.5	14.0	7.0	13.5	9.0
1R2	1.2	M	100kHz, 0.25V	-	-	16.0	6.5	-	-
1R5	1.5	M	100kHz, 0.25V	46.0	4.0	25.0	6.0	20.0	9.0
2R2	2.2	M	100kHz, 0.25V	58.0	3.0	35.0	5.5	28.0	7.0
3R3	3.3	M	100kHz, 0.25V	87.0	2.5	38.0	5.0	39.0	5.5
4R7	4.7	M	100kHz, 0.25V	-	-	60.0	4.0	50.0	5.0
6R8	6.8	M	100kHz, 0.25V	-	-	-	-	70.0	4.0

Code	Inductance		Test Condition	LPSM0630		LPSM1040		LPSM1350	
	L (uH)	Tolerance		DCR (mΩ) max	IDC (A)	DCR (mΩ) max	IDC (A)	DCR (mΩ) max	IDC (A)
R10	0.10	M	100kHz, 0.25V	1.7	32.5	-	-	1.7	32.5
R15	0.15	M	100kHz, 0.25V	2.5	30.0	-	-	2.5	30.0
R20	0.20	M	100kHz, 0.25V	3.0	24.0	-	-	3.0	24.0
R22	0.22	M	100kHz, 0.25V	2.8	23.0	1.5	32.0	2.8	23.0
R33	0.33	M	100kHz, 0.25V	3.9	20.0	-	-	3.9	20.0
R36	0.36	M	100kHz, 0.25V	3.9	20.0	1.7	31.5	3.9	20.0
R47	0.47	M	100kHz, 0.25V	4.2	17.5	1.9	27.5	4.2	17.5
R56	0.56	M	100kHz, 0.25V	5.0	16.5	2.3	27.5	5.0	16.5
R68	0.68	M	100kHz, 0.25V	5.5	15.5	2.5	23.0	5.5	15.5
R82	0.82	M	100kHz, 0.25V	8.0	13.0	-	-	8.0	13.0
R88	0.88	M	100kHz, 0.25V	-	-	3.0	20.0	-	-
1R0	0.47	M	100kHz, 0.25V	10.0	11.0	4.1	17.5	10.0	11.0
1R5	1.5	M	100kHz, 0.25V	15.0	9.0	6.0	15.0	15.0	9.0
1R8	1.8	M	100kHz, 0.25V	-	-	8.2	15.0	-	-
2R2	2.2	M	100kHz, 0.25V	20.0	8.0	9.0	12.0	20.0	8.0
2R5	2.5	M	100kHz, 0.25V	22.0	7.0	-	-	22.0	7.0
3R3	3.3	M	100kHz, 0.25V	30.0	6.0	11.8	10.0	30.0	6.0
4R7	4.7	M	100kHz, 0.25V	40.0	5.5	16.5	9.5	40.0	5.5
5R6	5.6	M	100kHz, 0.25V	42.0	5.5	19.3	8.5	42.0	5.5
6R8	6.8	M	100kHz, 0.25V	60.0	4.5	25.0	8.0	60.0	4.5
7R5	7.5	M	100kHz, 0.25V	60.0	4.2	-	-	60.0	4.2
8R2	8.2	M	100kHz, 0.25V	68.0	4.0	26.3	8.0	68.0	4.0
100	10	M	1kHz, 0.25V	105.0	3.0	36.5	6.8	105	3.0
120	12	M	1kHz, 0.25V	-	-	-	-	-	-
150	15	M	1kHz, 0.25V	-	-	65.0	3.5	-	-
220	22	M	1kHz, 0.25V	-	-	120.0	2.0	-	-
330	33	M	1kHz, 0.25V	-	-	200.0	1.8	-	-
470	47	M	1kHz, 0.25V	-	-	210.0	1.2	-	-

Rated DC Current: The current when the inductance reduces to 30% less than its initial value.