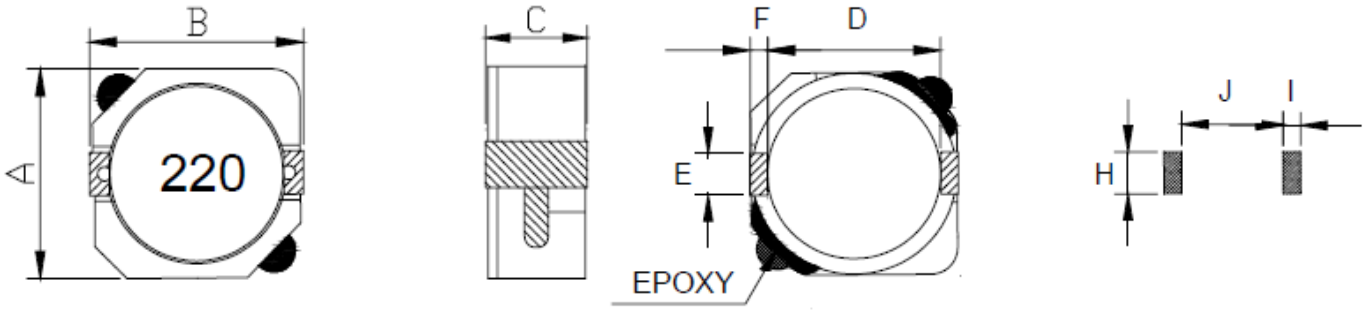
Product Specification

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

MAGNA Frequency Components

LPSH Series Shielded Power Inductor

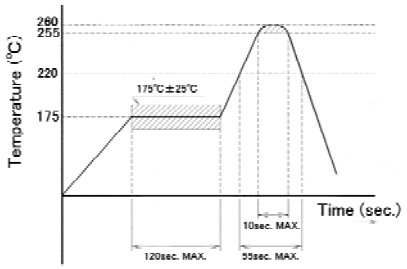
- High power, High saturation current
- Ideal for dc-dc converters, Notebook PCs, etc.
- Magnetically shielded



Dimensions

Codes	A max	B max	C	D Ref.	E	F	H Ref.	I Ref.	J Ref.	Reel Qty
LPSH5D28	6.2±0.3	6.3±0.30	3.0	4.7	2.0	0.6	2.6	1.0	4.6	
LPSH1003	7.8±0.3	7.0±0.35	3.0	7.7	3.0	1.2	3.6	1.7	7.3	
LPSH1004	10.0±0.4	9.0±0.40	4.0	7.7	3.0	1.2	3.6	1.7	7.3	
LPSG1005	12.6±0.5	11.6±0.50	5.0	7.7	3.0	1.2	3.6	1.7	7.3	

Reflow Profile



Ordering Code Guide:		
Series Code	Tolerance	Inductance
LPSH5D28	N: ±30%	1R0: 1.0uH
LPSH1003		100: 10.0uH
LPSH1004		101: 100uH
LPSG1005		102: 1000uH

Note: Rated DC current is the smaller of either: DC current at which either the inductance decreases to 75% (65% for LPSH5D28 andLPSH1004) from its value with no current or that which causes a 40°C temperature rise above 25°C ambient.

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MAGNA Frequency Components

LPSH Series Shielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPSG63B		LPSG74B	
			DCR (Ω) max.	I sat (A)	DCR (Ω) max.	I sat (A)
100	10.0	M	0.14	1.00	0.07	1.65
120	12.0	M	0.16	0.94	0.07	1.57
150	15.0	M	0.18	0.86	0.08	1.39
180	18.0	M	0.25	0.78	0.10	1.29
220	22.0	M	0.32	0.76	0.13	1.12
270	27.0	M	0.36	0.64	0.16	1.06
330	33.0	L	0.41	0.61	0.18	0.97
390	39.0	L	0.47	0.53	0.18	0.91
470	47.0	L	0.51	0.50	0.27	0.80
560	56.0	L	0.72	0.46	0.29	0.76
680	68.0	L	0.82	0.42	0.33	0.68
820	82.0	L	-	-	0.43	0.62
101	10.0	K	-	-	0.49	0.55
121	120	K	-	-	0.68	0.49
151	150	K	-	-	0.94	0.44
181	180	K	-	-	1.00	0.40
221	220	K	-	-	1.18	0.36
271	270	K	-	-	1.30	0.33

Inductance Code	L (uH)	Tolerance	LPSG105B		LPSG125B	
			DCR (Ω) max.	I sat (A)	DCR (Ω) max.	I sat (A)
100	10.0	M	0.06	2.06	0.05	2.65
120	12.0	M	0.07	1.94	0.05	2.50
150	15.0	M	0.07	1.72	0.06	2.45
180	18.0	M	0.08	1.58	0.06	2.40
220	22.0	M	0.08	1.42	0.07	2.20
270	27.0	M	0.10	1.32	0.08	2.00
330	33.0	M	0.11	1.16	0.10	1.80
390	39.0	M	0.12	1.10	0.11	1.65
470	47.0	M	0.14	1.00	0.12	1.50
560	56.0	M	0.19	0.93	0.15	1.38
680	68.0	M	0.21	0.85	0.17	1.26
820	82.0	M	0.28	0.79	0.20	1.14
101	10.0	M	0.34	0.72	0.25	1.05
121	120	M	0.37	0.63	0.28	0.95
151	150	M	0.51	0.55	0.40	0.85
181	180	M	0.57	0.50	0.48	0.77
221	220	M	0.78	0.47	0.52	0.70
271	270	M	0.87	0.41	0.70	0.63
331	330	M	1.20	0.37	0.80	0.57
391	390	M	1.34	0.35	1.08	0.52
471	470	M	1.50	0.33	1.20	0.48
561	560	M	-		1.34	0.44
681	680	M	-		1.78	0.40
821	820	M	-		2.00	0.36

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