Coilmaster Electronics Co., Ltd.
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SPS0805 SERIES ~ Shielded Power Inductors

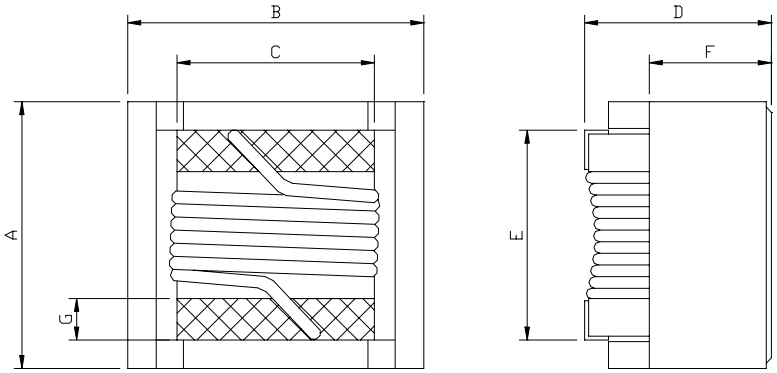
RoHS Compliant

PART NUMBERING SYSTEM

SPS	0805	–	4R7M	–	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

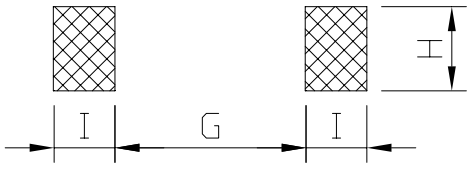
UNIT : mm



A=3.38 Max. B=3.0 Max. C=2.03 Ref. D=2.00 Max. E=1.27 Ref. F=0.51 Ref.

RECOMMENDED PATTERNS

UNIT : mm



G=0.76 Ref. H=1.78 Ref. I=1.02 Ref.

FEATURES:

- **Magnetically shielded**
- **Only 2.0 mm high**
- **Economical alternative to larger power inductors**
- **Specially designed for best pick and place handling**
- **Saturation current ratings up to 900 mAmps**
- **Inductance values from 1 µH to 220 µH**

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Q. MIN.	DCR (Ω) (Max)	SRF (MHz) Typ.	Isat (A)	Irms (A)
SPS0805-1R0M-LF	1.0±20%	21@1MHz	0.14	340	0.90	1.80
SPS0805-1R8M-LF	1.5±20%	21@1MHz	0.18	265	0.85	1.43
SPS0805-2R7M-LF	2.7±20%	21@1MHz	0.33	190	0.60	1.00
SPS0805-3R3M-LF	3.3±20%	21@1MHz	0.46	180	0.55	0.83
SPS0805-3R9M-LF	3.9±20%	21@1MHz	0.72	165	0.50	0.71
SPS0805-4R7M-LF	4.7±20%	21@1MHz	0.81	155	0.43	0.65
SPS0805-5R6M-LF	5.6±20%	21@1MHz	0.91	143	0.38	0.61
SPS0805-6R8M-LF	6.8±20%	21@1MHz	1.25	118	0.32	0.51
SPS0805-100M-LF	10±20%	21@1MHz	1.45	66	0.27	0.48
SPS0805-150M-LF	15±20%	21@1MHz	1.90	34	0.22	0.41
SPS0805-220M-LF	22±20%	25@1MHz	2.48	22	0.18	0.36
SPS0805-330M-LF	33±20%	25@1MHz	3.00	17	0.16	0.33
SPS0805-470M-LF	47±20%	25@1MHz	3.65	15	0.15	0.29
SPS0805-680M-LF	68±20%	28@1MHz	4.42	12	0.12	0.27
SPS0805-820M-LF	82±20%	30@1MHz	6.00	12	0.11	0.23
SPS0805-101M-LF	100±20%	32@1MHz	6.45	9	0.10	0.21
SPS0805-151M-LF	150±20%	32@1MHz	7.70	5	0.08	0.20
SPS0805-221M-LF	220±20%	32@1MHz	12.0	5	0.07	0.13

- Inductance are tested by HP4284A with SMD test fixture at 100KHz, 0.1Vrms.
- Q value are tested by HP4287A with 16193 SMD test fixture at 1MHz, 0.1 Vrms.
- DCR measured on HP4338 micro-ohmmete.
- Isat : Inductance is 10% lower than it's nominal value in DC saturation characteristics.
- Irms : temperature raise becomes ΔT = 40° C.
- Operating temperature range -40° C to +85° C. Electrical specifications at 25° C.