



## SPS4012 SERIES ~ Shielded Power Inductors



RoHS Compliant

### FEATURES

- Excellent shielded construction .
- Low profile inductor ( 4.1x4.1x1.3 mm Max. )
- Lowest DCR / large currents .
- Low buzz noise
- Lead Free and RoHS compliant .

### Applications :

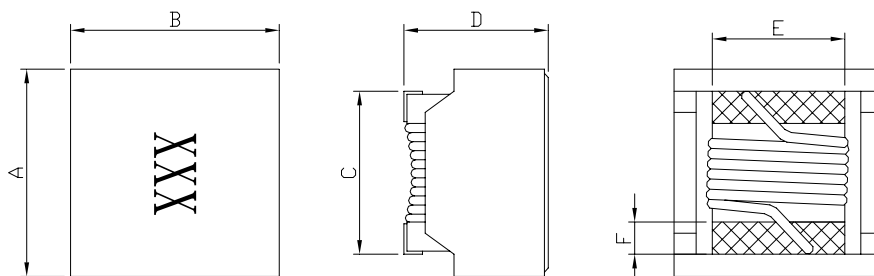
Mobil phone , Notebook computers, PC cards, wireless communication and handheld devices.

### PART NUMBERING SYSTEM

<b>SPS</b>	<b>4 0 1 2</b>	—	<b>1 R 0 M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

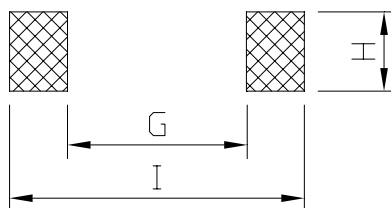
UNIT : mm



A=4.1 Max. B=4.1 Max. C=2.48±0.1 D=1.3 Max. E=2.0±0.1 F=0.5±0.07

### RECOMMENDED PATTERNS

UNIT : mm



G=1.27 Ref. H=2.54 Ref. I=3.31 Ref.



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Max)	Isat (Max)	Irms (Max)
SPS4012-1R0M-LF	1.0 $\pm$ 20%	0.084	2.10	1.45
SPS4012-2R2M-LF	2.2 $\pm$ 20%	0.120	1.35	1.10
SPS4012-3R3M-LF	3.3 $\pm$ 20%	0.168	1.05	0.95
SPS4012-4R7M-LF	4.7 $\pm$ 20%	0.192	0.95	0.90
SPS4012-6R8M-LF	6.8 $\pm$ 20%	0.240	0.77	0.80
SPS4012-100M-LF	10 $\pm$ 20%	0.312	0.62	0.70
SPS4012-150M-LF	15 $\pm$ 20%	0.540	0.52	0.60
SPS4012-220M-LF	22 $\pm$ 20%	0.624	0.45	0.54
SPS4012-330M-LF	33 $\pm$ 20%	1.020	0.35	0.42
SPS4012-470M-LF	47 $\pm$ 20%	1.200	0.30	0.37

- Inductance is measured with a LCR meter HP4284A or equivalent .
- Isat: DC current at which the inductance drops 35% (typ.) from its value without current. .
- Irms: Average current for a 40°C rise above 25°C ambient
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.
- Packing : 13" reel, machine-ready ,embossed plastic tape (3,500 parts per full reel) .