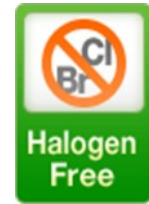


## Low Profile High Current Power Inductors - SPM4015EB SERIES



### PART NUMBERING SYSTEM

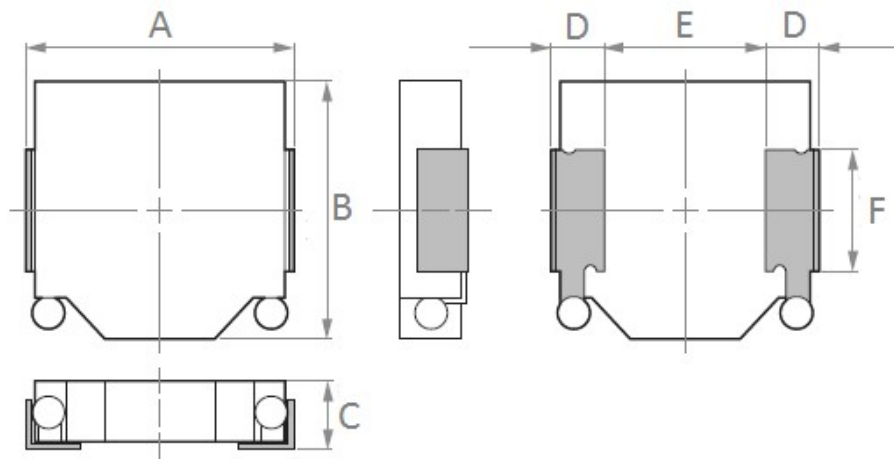
<b>SPM</b>	<b>4015EB</b>	—	<b>2R2M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- High current and very low DCR
- Inductance range: 0.47  $\mu$ H – 10  $\mu$ H , DC Current up to 12A .
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation with AEC-Q200 Grade 1 (–40°C to +125°C) .

### SHAPES AND DIMENSIONS :

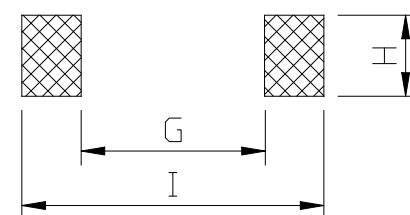
UNIT : mm



A=4.4±0.25 B=4.1±0.25 C=1.5 max. D=0.9±0.1 E=2.6 ref. F= 2.0±0.1

### RECOMMENDED PATTERNS

UNIT : mm



H=2.3 G= 1.7 I = 4.9



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H) @ 100KHz	I <sub>sat</sub> (A) (Max.)	I <sub>rms</sub> (A) (Max.)	DCR (m $\Omega$ ) (Typ.)	DCR (m $\Omega$ ) (Max.)
SPM4015EB-R47M-LF	0.47 $\pm$ 20%	12.0	8.3	9.70	11.3
SPM4015EB-R68M-LF	0.68 $\pm$ 20%	8.6	7.7	11.8	13.8
SPM4015EB-1R0M-LF	1.00 $\pm$ 20%	8.4	5.4	19.3	22.5
SPM4015EB-1R5M-LF	1.50 $\pm$ 20%	6.1	4.8	25.7	30.0
SPM4015EB-2R2M-LF	2.20 $\pm$ 20%	5.8	3.7	41.3	48.0
SPM4015EB-3R3M-LF	3.30 $\pm$ 20%	4.1	2.8	70.8	82.5
SPM4015EB-4R7M-LF	4.70 $\pm$ 20%	3.5	2.5	85.0	100.0
SPM4015EB-6R8M-LF	6.80 $\pm$ 20%	2.8	2.2	108.0	125.0
SPM4015EB-100M-LF	10.0 $\pm$ 20%	1.8	1.6	198.0	230.0

- I<sub>sat</sub> : DC current at which the inductance drops 30% (Max.) from its value without current.
- I<sub>rms</sub> : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.