

## SPO4815 SERIES – Low Profile SMD Power Inductors



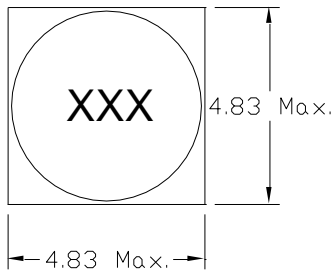
### PART NUMBERING SYSTEM

<b>SPO</b>	<b>4815</b>	<b>1R0M</b>	<b>LF</b>
TYPE	DIMENSIONS	INDUCTANCE	LEAD FREE

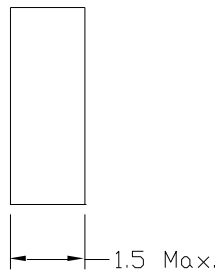
### SHAPES AND DIMENSIONS / PCB LAYOUT

UNIT : mm

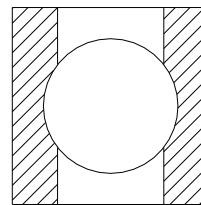
TOP VIEW



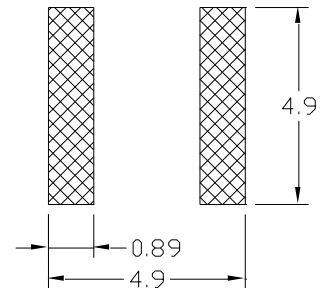
FRONT VIEW



BOTTOM VIEW



PCB PATTERN



### FEATURES

- Designed for applications requiring high inductance, high current & ultra – low profile.
- Ideal for a variety EL lamp inverter and Cellular phone inductor applications.
- Lead free and RoHS compliant

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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Max.)	Isat ( A ) (Max.)	Irms ( A ) (Max.)	SRF(MHz) (Ref.)
SPO4815-1R0M-LF	1.0 $\pm$ 20%	0.036	1.60	1.90	230
SPO4815-1R5M-LF	1.5 $\pm$ 20%	0.085	1.50	1.70	220
SPO4815-2R2M-LF	2.2 $\pm$ 20%	0.088	1.00	1.50	150
SPO4815-3R3M-LF	3.3 $\pm$ 20%	0.12	0.90	1.30	115
SPO4815-3R3M-LF	3.9 $\pm$ 20%	0.13	0.86	1.20	105
SPO4815-4R7M-LF	4.7 $\pm$ 20%	0.15	0.77	1.10	95
SPO4815-6R8M-LF	6.8 $\pm$ 20%	0.18	0.65	1.00	72
SPO4815-8R2M-LF	8.2 $\pm$ 20%	0.22	0.58	0.90	65
SPO4815-100K-LF	10 $\pm$ 10%	0.23	0.50	0.85	60
SPO4815-120K-LF	12 $\pm$ 10%	0.31	0.45	0.80	50
SPO4815-150K-LF	15 $\pm$ 10%	0.36	0.42	0.75	45
SPO4815-220K-LF	22 $\pm$ 10%	0.46	0.37	0.70	35
SPO4815-330K-LF	33 $\pm$ 10%	0.71	0.28	0.65	30
SPO4815-390K-LF	39 $\pm$ 10%	0.83	0.26	0.60	25
SPO4815-470K-LF	47 $\pm$ 10%	1.20	0.22	0.55	25
SPO4815-680K-LF	68 $\pm$ 10%	1.40	0.20	0.45	20
SPO4815-101K-LF	100 $\pm$ 10%	2.15	0.15	0.36	15
SPO4815-151K-LF	150 $\pm$ 10%	3.15	0.13	0.30	12
SPO4815-221K-LF	220 $\pm$ 10%	4.30	0.10	0.27	10

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
- Isat: DC current at which the inductance drops 10% (typ.) from its value without current.
- Irms: Average current for a of 40°C rise above 25°C ambient .
- Operating temperature range -40°C to +105°C.
- Electrical specifications at 25°C.
- Packing : 13" reel, machine-ready ,embossed plastic tape (2,000 parts per full reel).