

SPO2506 SERIES ~ SMD Power Inductors



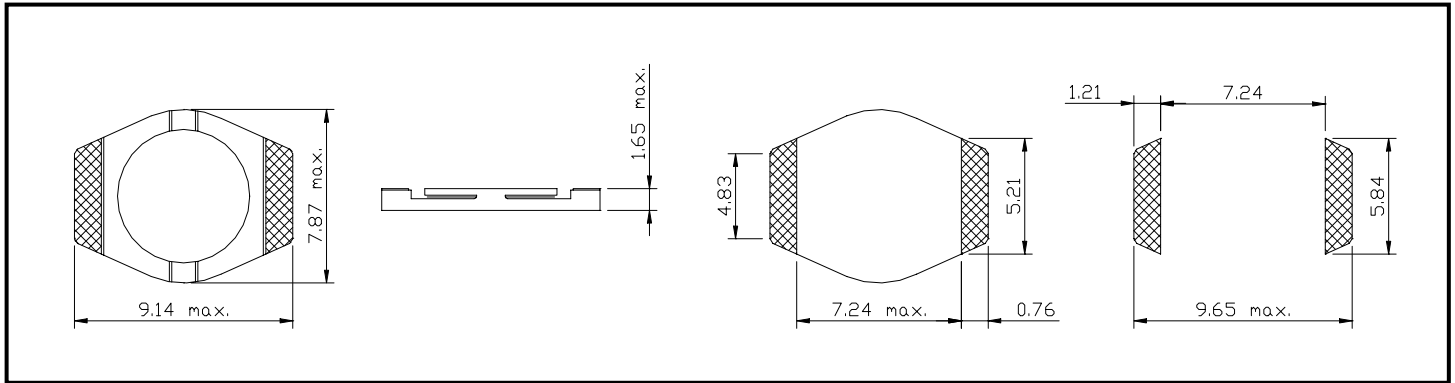
RoHS Compliant

PART NUMBERING SYSTEM

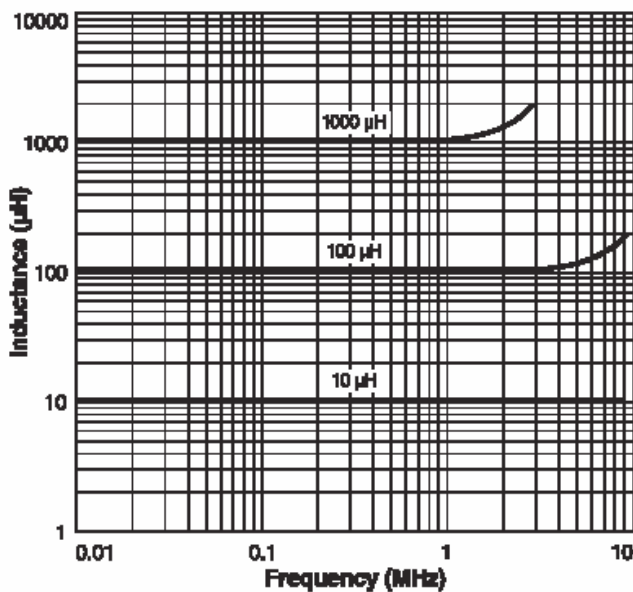
SPO	2 5 0 6	—	6 8 0 M	—	L F
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

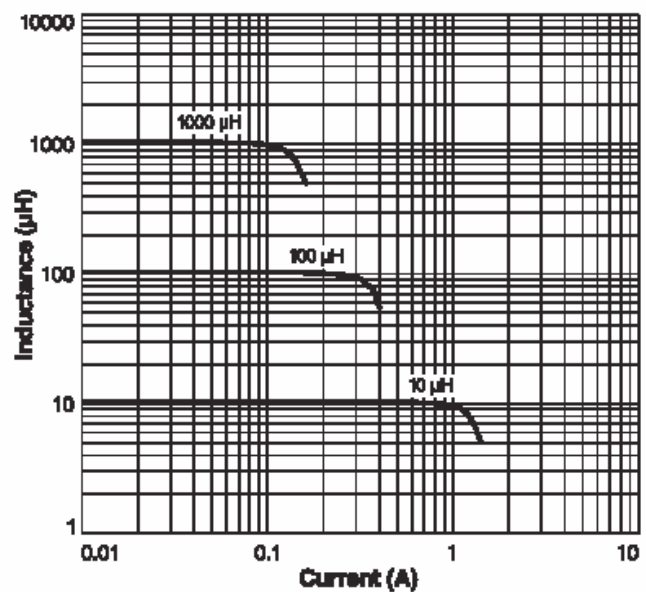
UNIT : mm



Typical L vs Frequency



Typical L vs Current



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	SRF(MHz) (Ref.)
SPO2506-4R7M-LF	4.7 $\pm$ 20%	0.145	1.60	1.90	90
SPO2506-6R8M-LF	6.8 $\pm$ 20%	0.165	1.30	1.70	75
SPO2506-8R2M-LF	8.2 $\pm$ 20%	0.200	1.00	1.50	65
SPO2506-100M-LF	10 $\pm$ 20%	0.240	1.00	1.50	60
SPO2506-150M-LF	15 $\pm$ 20%	0.300	0.90	1.30	45
SPO2506-220M-LF	22 $\pm$ 20%	0.420	0.70	1.00	35
SPO2506-330M-LF	33 $\pm$ 20%	0.550	0.60	0.90	30
SPO2506-470M-LF	47 $\pm$ 20%	0.765	0.50	0.70	22
SPO2506-680M-LF	68 $\pm$ 20%	1.10	0.40	0.60	20
SPO2506-101M-LF	100 $\pm$ 20%	1.60	0.30	0.50	15
SPO2506-151M-LF	150 $\pm$ 20%	2.50	0.25	0.40	12
SPO2506-221M-LF	220 $\pm$ 20%	3.65	0.22	0.32	10
SPO2506-331M-LF	330 $\pm$ 20%	4.65	0.18	0.28	8.0
SPO2506-471M-LF	470 $\pm$ 20%	6.75	0.14	0.24	6.5
SPO2506-681M-LF	680 $\pm$ 20%	9.15	0.12	0.20	5.5
SPO2506-102M-LF	1000 $\pm$ 20%	14.20	0.10	0.16	4.5

- Inductance tested at 100 kHz, 0.1 Vrms
- I sat : DC current at which the inductance drops 10% (typ) from its value without current.
- I rms : : Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.

FEATURES

- Handles **up to 1.9 Amps**
- Inductance value from **4.7uH to 1000uH**
- On-board version is 1,65 mm high
- Ceramic cover provides **best possible surface for pick and place** operations.
- **RoHS-compliant.** 260°C compatible.

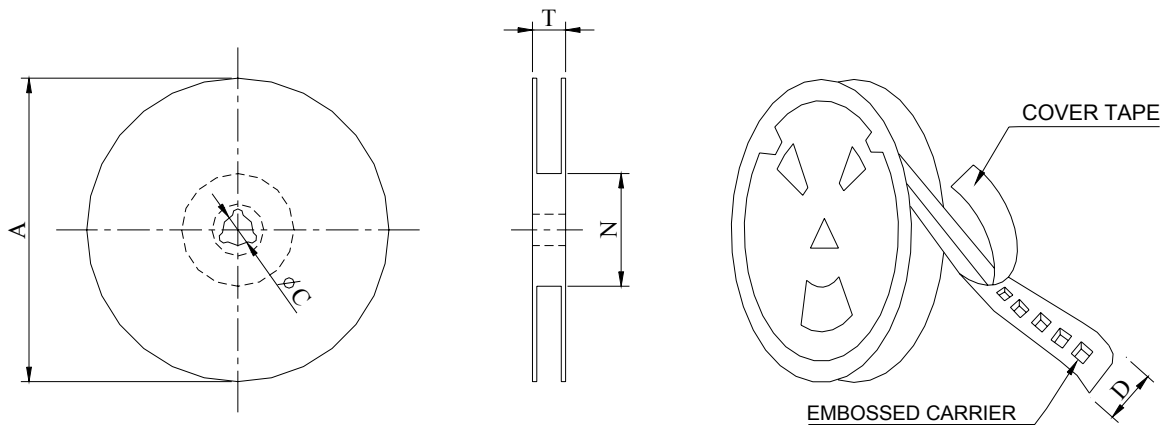
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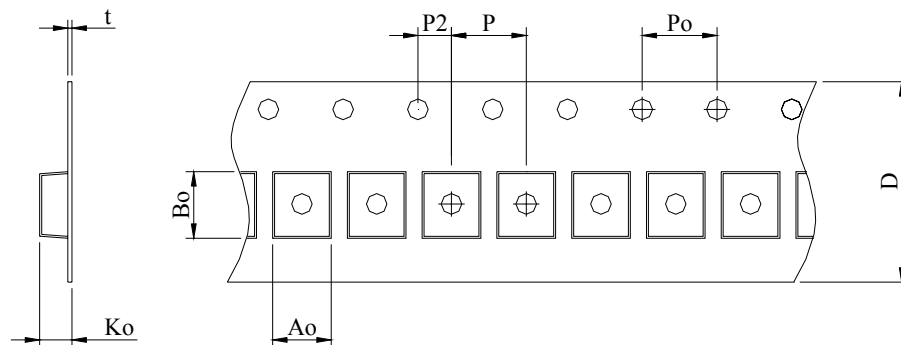
PACKAGING SPECIFICATION

Reel Dimensions



*CARRIER TAPE WIDTH : D

Tape Dimensions



Piece /Reel		Reel Dimensions				Tape Dimensions							
178	330	A	N	C	T	Ao	Bo	Ko	P	Po	P2	D	t
—	2500	330	100	13	16.3	8.0	9.3	1.8	12	4	2	16	0.3