Shielded Power Inductors

SEP1360 / 1390 / 1512 Series



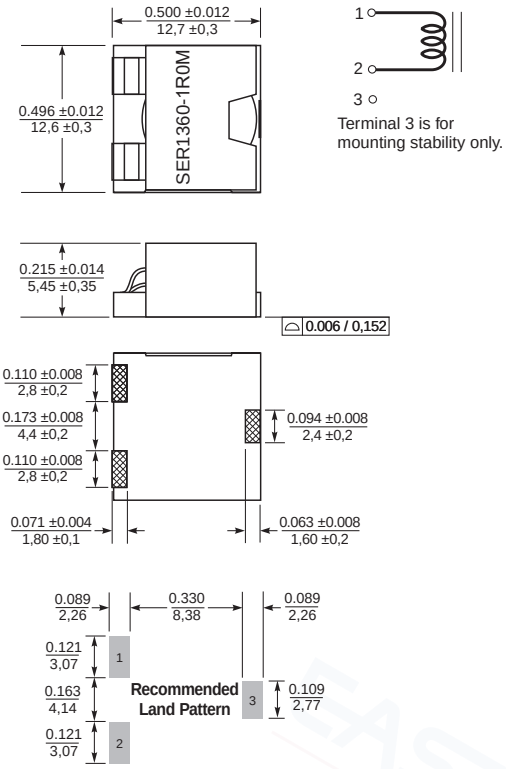
Features

- High-current capability; low DCR
- Shielded construction for dense layouts
- SER1360: low-profile package
- Ferrite core; three-pad mounting

Applications

- High-current power supplies
- DC/DC power conversion
- Compact power modules
- Power management circuits

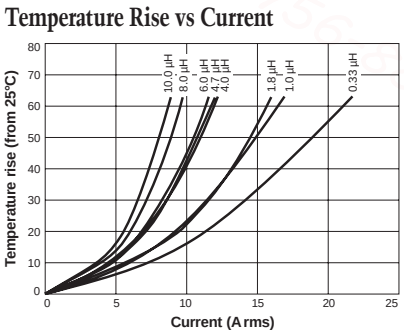
OUTLINE & LAND PATTERN (REFERENCE)



DIMENSIONS (mm)

Series	Length	Width	Height
SEP1360	12.7 +/-0.3	12.6 +/-0.3	5.45 +/-0.35
SEP1390	12.7 +/-0.3	12.6 +/-0.3	9.0 max.
SEP1512	15.4 max.	15.2 max.	12.0 max.

SER1360: TEMPERATURE RISE vs CURRENT



Dimensions: inches / mm. Drawings not to scale.

ELECTRICAL CHARACTERISTICS @ 25℃

Part number	L [1] (uH)	DCR typ. (mOhm)	DCR max. (mOhm)	SRF typ. (MHz)	Isat [2] 10% (A)	Isat [2] 20% (A)	Isat [2] 30% (A)	Irms [3] 20 deg C (A)	Irms [3] 40 deg C (A)
SEP1360-R33M	0.33	0.77	0.85	200	36	41	43	13.0	16.9
SEP1360-R65M	0.65	0.77	0.85	160	23	27	28	13.0	16.9
SEP1360-1R0M	1.0	2.36	2.60	75	32	33	33.5	9.5	13.0
SEP1360-1R8M	1.8	2.36	2.60	50	17	19	20	9.5	13.0
SEP1360-2R7M	2.7	2.36	2.60	42	12	13	14	9.5	13.0
SEP1360-4R0M	4.0	5.50	6.05	34	11	12	13	7.1	9.4
SEP1360-4R7M	4.7	5.50	6.05	32	9.5	11	12	7.1	9.4
SEP1360-6R0M	6.0	5.50	6.05	28	8.0	9.0	9.5	7.1	9.4
SEP1360-8R0M	8.0	9.83	10.81	26	7.5	8.5	9.0	5.5	7.6
SEP1360-100M	10	9.83	10.81	24	6.2	7.0	7.5	4.4	7.2
SEP1390-100M	10	13.7	15.0	26.9	11.32	12.56	13.16	6.4	9.2
SEP1390-150M	15	13.7	15.0	24.3	7.20	8.04	8.60	6.4	9.2
SEP1390-220M	22	21.0	23.1	20.3	6.08	6.80	7.36	5.7	7.7
SEP1390-330M	33	21.0	23.1	15.7	3.80	4.40	4.76	5.7	7.7
SEP1390-470M	47	21.0	23.1	13.2	2.60	3.00	3.20	5.7	7.7
SEP1512-4R7M	4.7	2.8	3.1	32.4	18.3	19.6	20.1	11.4	18.1
SEP1512-100M	10	3.3	3.7	22.3	9.3	10.6	11.3	9.3	15.7
SEP1512-220M	22	7.6	8.4	14.0	6.8	7.6	8.0	7.1	11.8

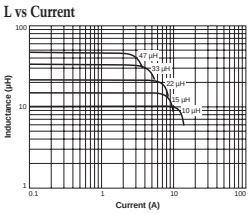
[1] L measured at 100 kHz, 0.1 Vrms, 0 Adc.
Tolerance: SEP1360 +/-10%; SEP1390 and SEP1512 +/-20%.
[2] Isat: current at the stated inductance drop, at 25 deg C.
[3] Irms: specified temperature rise from 25 deg C.

GENERAL CHARACTERISTICS

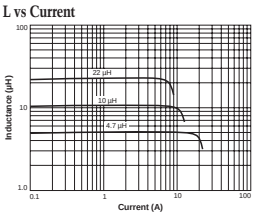
Parameter	SER1360	SER1390	SER1512
Core	Ferrite	Ferrite	Ferrite
Weight (g)	2.6 - 2.8	4.0 - 4.8	5.0 - 7.0
Ambient [4]	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C
Max. part temp.	125 deg C	125 deg C	125 deg C

[4] At 40 deg C rise Irms. Terminal 3 is for mounting stability only.

SEP1390: L vs Current



SEP1512: L vs Current



Typical curves from the supplied reference datasheets.

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