

Hi-Current Power Inductors LSI Series

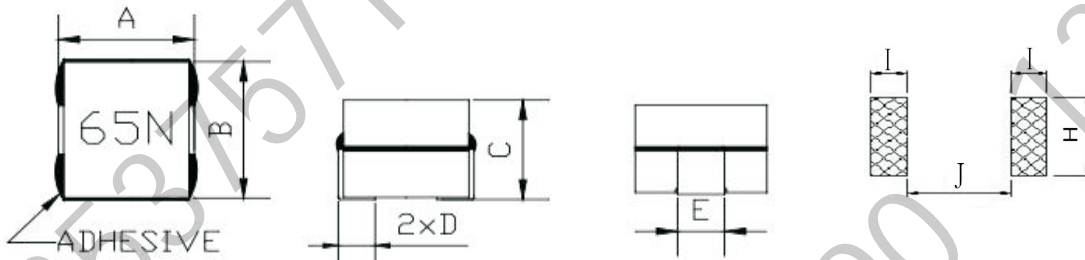
Product Identification:



LSI - 400404 - 1R5 M  
(1) (2) (3) (4)

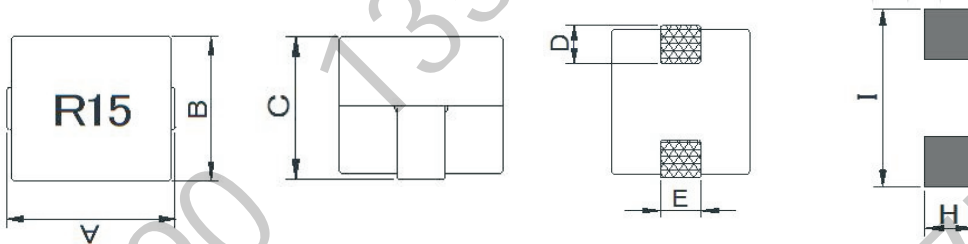
- (1) Type
- (2) Dimensions(L\*H\*W)
- (3) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (4) Tolerance(K(±10%), L(±15%), M(±20%),N(±30%))

DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	H(mm)	I(mm)	J(mm)
LSI-400404	4.0Max	4.0Max	4.0Max	1.2±0.2	1.4±0.2	-	1.9Typ	1.7Typ	0.9Typ
LSI-400406	4.6Max	4.5Max	6.0Max	1.2Typ	1.5Typ	-	1.9Typ	1.7Typ	0.9Typ
LSI-500506	5.2Max	5.0Max	6.1Max	1.4Typ	2.0Typ	-	1.9Typ	1.7Typ	0.9Typ
LSI-600505	5.85±0.3	5.1±0.2	4.8±0.2	1.8Typ	1.8Typ	-	2.4Typ	2.4Typ	2.0Typ

DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	H(mm)	I(mm)	J(mm)
LSI-600607	6.1Max	6.0Max	7.0Max	1.0Typ	2.2Typ	-	2.7Typ	6.5Typ	3.4Typ
LSI-600608	5.7±0.5	5.7±0.5	7.5±0.5	1.7±0.5	3.0±0.2	-	3.5Typ	8.0Typ	2.2Typ
LSI-700705	7.0Max	7.0Max	5.0Max	1.52Typ	2.49Typ	-	3.1Typ	7.36Typ	3.3Typ
LSI-900608	9.4±0.3	6.2±0.3	7.8±0.3	2.3±0.2	2.14±0.2	-	2.54Typ	10.4Typ	4.0Typ
LSI-100808	10.3±0.3	7.6±0.3	7.2±0.3	2.54Typ	2.21Typ	-	2.8Typ	11.3Typ	4.6Typ
LSI-111109	11.2Max	11.2Max	9.0Max	2.54Typ	2.03Typ	-	2.8Typ	11.3Typ	4.6Typ
LSI-121006	12.1Max	10.0Max	6.0Max	2.54Typ	3.94Typ	-	4.5Typ	13.0Typ	5.5Typ
LSI-131308	13.5Max	13.0Max	8.1Max	2.54Typ	5.0Typ	-	4.5Typ	14.0Typ	7.0Typ

**Hi-Current Power Inductors LSI-400404 Series**

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (nH)	Tolerance	Test Frequency(Hz)	DCR(mΩ) ±25%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-400404-22N□	22	M N	100K/0.1V	0.32	40	19.0	22N
LSI-400404-50N□	50	M N	100K/0.1V	0.32	29	19.0	50N
LSI-400404-65N□	65	M N	100K/0.1V	0.32	24	19.0	65N
LSI-400404-80N□	80	M N	100K/0.1V	0.32	22	19.0	80N
LSI-400404-R10□	100	M N	100K/0.1V	0.32	17	19.0	R10

**Hi-Current Power Inductors LSI-400406 Series**

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR(mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-400406-R10□	0.1	M N	100K/1V	0.3±10%	16	40.0	R10

**Hi-Current Power Inductors LSI-500506 Series**

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR(mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-500506-50N□	0.05	M N	100K/1V	0.2±7%	68	44.0	50N

**Hi-Current Power Inductors LSI-600605 Series**

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR(mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-600505-R10□	0.1	L M	100K/1V	0.4max	20	43.0	R10

**Hi-Current Power Inductors LSI-600607 Series**

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR(mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-600607-70N□	0.07	M N	100K/1V	0.09±15%	60	53.0	70N

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A 20% Typ

(3).IDC2:Temp.rise 40°C Typ

(4).Operating temp.: -40°C to +125°C

※:Rated DC Current : The less value which is IDC1 or IDC2

### Hi-Current Power Inductors LSI-600608 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR(mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-600608-R10□	0.1	M N	100K/1V	0.23±7%	40	35	R10
LSI-600608-R20□	0.2	M N	100K/1V	0.23±7%	22	35	R20

### Hi-Current Power Inductors LSI-700705 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-700705-50N□	0.05	M N	100K/0.1V	0.32 ±9.4%	60	31	50N
LSI-700705-R10□	0.105	M N	100K/0.1V	0.32 ±9.4%	46	31	R10
LSI-700705-R15□	0.150	M N	100K/0.1V	0.32 ±9.4%	30	31	R15
LSI-700705-R20□	0.200	M N	100K/0.1V	0.32 ±9.4%	20	31	R20

### Hi-Current Power Inductors LSI-900608 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-900608-R12□	0.12	K M	100K/1V	0.29 ±5%	80	51	R12
LSI-900608-R15□	0.15	K M	100K/1V	0.29 ±5%	65	51	R15
LSI-900608-R22□	0.22	K M	100K/1V	0.29 ±5%	44	51	R22
LSI-900608-R30□	0.30	K M	100K/1V	0.29 ±5%	32	51	R30

### Hi-Current Power Inductors LSI-100808 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-100808-R12□	0.115	L M	100K/0.1V	0.29 ±10%	78	41	R12
LSI-100808-R15□	0.150	L M	100K/0.1V	0.29 ±10%	72	41	R15
LSI-100808-R18□	0.175	L M	100K/0.1V	0.29 ±10%	62	41	R18
LSI-100808-R21□	0.215	L M	100K/0.1V	0.29 ±10%	48	41	R21
LSI-100808-R23□	0.23	L M	100K/0.1V	0.29 ±10%	43	41	R23
LSI-100808-R27□	0.27	L M	100K/0.1V	0.29 ±10%	37	41	R27
LSI-100808-R30□	0.30	L M	100K/0.1V	0.29 ±10%	32	41	R30

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A 20% Typ

(3).IDC2:Temp.rise 40°C Typ

(4).Operating temp.: -40°C to +125°C

※:Rated DC Current : The less value which is IDC1 or IDC2

### Hi-Current Power Inductors LSI-100808-\*\*-H Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-100808-R10□-H	0.10	K M	100K/0.1V	0.18 ±5%	100	70	R10
LSI-100808-R12□-H	0.12	K M	100K/0.1V	0.18 ±5%	90	70	R12
LSI-100808-R15□-H	0.15	K M	100K/0.1V	0.18 ±5%	80	70	R15
LSI-100808-R18□-H	0.18	K M	100K/0.1V	0.18 ±5%	67	70	R18
LSI-100808-R22□-H	0.22	K M	100K/0.1V	0.18 ±5%	48	70	R22
LSI-100808-R27□-H	0.27	K M	100K/0.1V	0.18 ±5%	40	70	R27
LSI-100808-R30□-H	0.30	K M	100K/0.1V	0.18 ±5%	32	70	R30

### Hi-Current Power Inductors LSI-111109 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-111109-R22□	0.225	M N	100K/0.1V	0.63 ±9.5%	68	35	R22
LSI-111109-R27□	0.27	M N	100K/0.1V	0.63 ±9.5%	50	35	R27
LSI-111109-R33□	0.325	M N	100K/0.1V	0.63 ±9.5%	43	35	R33
LSI-111109-R47□	0.47	M N	100K/0.1V	0.63 ±9.5%	30	35	R47

### Hi-Current Power Inductors LSI-121006 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-121006-R18□	0.18	L M	100K/0.1V	0.48 ±6.5%	55	36	R18
LSI-121006-R23□	0.23	M N	100K/0.1V	0.48 ±6.5%	47	36	R23
LSI-121006-R36□	0.36	M N	100K/0.1V	0.48 ±6.5%	30	36	R36

### Hi-Current Power Inductors LSI-131308 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LSI-131308-R15□	0.10	M N	100K/0.1V	0.32 ±10%	78	45	R15
LSI-131308-R21□	0.21	M N	100K/0.1V	0.32 ±10%	71	45	R21
LSI-131308-R26□	0.26	M N	100K/0.1V	0.32 ±10%	60	45	R26
LSI-131308-R33□	0.33	M N	100K/0.1V	0.32 ±10%	50	45	R33
LSI-131308-R44□	0.44	M N	100K/0.1V	0.32 ±10%	35	45	R44

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A 20% Typ

(3).IDC2:Temp.rise 40°C Typ

(4).Operating temp.: -40°C to +125°C

※:Rated DC Current : The less value which is IDC1 or IDC2