

Shielded Power Inductors LPS Series

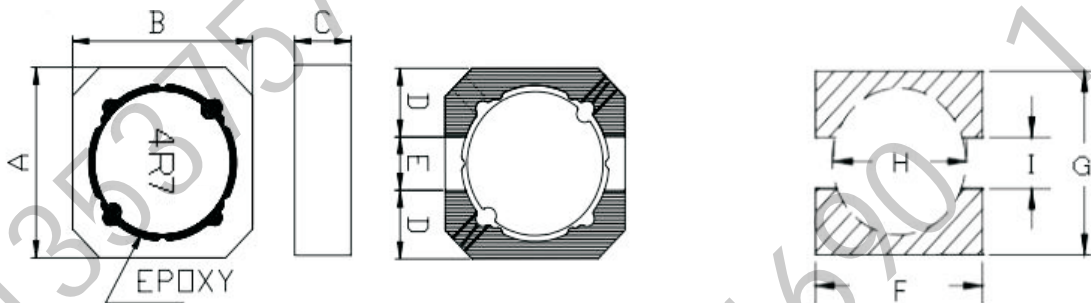
Product Identification:

LPS - 3010 - 1R0 M
(1) (2) (3) (4)



- (1) Type
- (2) Dimensions(L*H)
- (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)	F(mm)	G(mm)	H(mm)	I(mm)
LPS-3012	3.0±0.2	3.0±0.2	1.2Max	0.9Typ	1.2Typ	3.3Typ	3.3Typ	2.2Typ	1.0Typ
LPS-3015	3.0±0.2	3.0±0.2	1.5Max	0.9Typ	1.2Typ	3.3Typ	3.3Typ	2.2Typ	1.0Typ
LPS-3030	3.0±0.2	3.0±0.2	3.0Max	0.9Typ	1.2Typ	3.3Typ	3.3Typ	2.2Typ	1.0Typ
LPS-4012	4.0±0.2	4.0±0.2	1.2Max	1.1Typ	1.8Typ	4.4Typ	4.4Typ	2.9Typ	1.8Typ
LPS-4018	4.0±0.2	4.0±0.2	1.8Max	1.1Typ	1.8Typ	4.4Typ	4.4Typ	2.9Typ	1.8Typ
LPS-4020	4.0±0.2	4.0±0.2	2.0Max	1.1Typ	1.8Typ	4.4Typ	4.4Typ	2.9Typ	1.8Typ
LPS-4025	4.0±0.2	4.0±0.2	2.5Max	1.1Typ	1.8Typ	4.4Typ	4.4Typ	2.9Typ	1.8Typ
LPS-4030	4.0±0.2	4.0±0.2	3.0Max	1.1Typ	1.8Typ	4.4Typ	4.4Typ	2.9Typ	1.8Typ
LPS-5015	5.0±0.2	5.0±0.2	1.5Max	1.75Typ	1.5Typ	5.4Typ	5.4Typ	3.8Typ	1.5Typ
LPS-5020	5.0±0.2	5.0±0.2	2.0Max	1.75Typ	1.5Typ	5.4Typ	5.4Typ	3.8Typ	1.5Typ
LPS-5025	5.0±0.2	5.0±0.2	2.5Max	1.75Typ	1.5Typ	5.4Typ	5.4Typ	3.8Typ	1.5Typ
LPS-5030	5.0±0.2	5.0±0.2	3.0Max	1.75Typ	1.5Typ	5.4Typ	5.4Typ	3.8Typ	1.5Typ
LPS-6012	6.0±0.2	6.0±0.2	1.2Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ
LPS-6015	6.0±0.2	6.0±0.2	1.5Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ
LPS-6020	6.0±0.2	6.0±0.2	2.0Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ
LPS-6025	6.0±0.2	6.0±0.2	2.5Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ
LPS-6030	6.0±0.2	6.0±0.2	3.0Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ
LPS-6035	6.0±0.2	6.0±0.2	3.5Max	2.0Typ	2.0Typ	6.6Typ	6.6Typ	4.6Typ	2.0Typ

SMD Power Inductors LPS-3012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-3012-1R0□	1.0	N	100K/0.1V	80	1.8	1.80	1R0
LPS-3012-1R2□	1.2	N	100K/0.1V	95	1.65	1.70	1R2
LPS-3012-1R5□	1.5	N	100K/0.1V	110	1.5	1.65	1R5
LPS-3012-2R0□	2.0	N	100K/0.1V	150	1.3	1.30	2R0
LPS-3012-2R2□	2.2	N	100K/0.1V	150	1.3	1.30	2R2
LPS-3012-3R3□	3.3	N	100K/0.1V	180	1.0	1.20	3R3
LPS-3012-4R7□	4.7	M N	100K/0.1V	280	0.85	1.05	4R7
LPS-3012-5R6□	5.6	M N	100K/0.1V	360	0.8	0.85	5R6
LPS-3012-6R8□	6.8	M N	100K/0.1V	420	0.75	0.75	6R8
LPS-3012-8R2□	8.2	M N	100K/0.1V	550	0.65	0.65	8R2
LPS-3012-100□	10	M N	100K/0.1V	620	0.57	0.60	100
LPS-3012-150□	15	M N	100K/0.1V	800	0.5	0.50	150
LPS-3012-220□	22	M N	100K/0.1V	1200	0.4	0.42	220

SMD Power Inductors LPS-3015 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-3015-1R0□	1.0	N	100K/0.1V	75	2	2.00	1R0
LPS-3015-1R5□	1.5	N	100K/0.1V	100	1.8	1.70	1R5
LPS-3015-1R8□	1.8	N	100K/0.1V	100	1.5	1.40	1R8
LPS-3015-2R1□	2.1	N	100K/0.1V	110	1.5	1.40	2R1
LPS-3015-2R2□	2.2	N	100K/0.1V	110	1.5	1.40	2R2
LPS-3015-3R3□	3.3	N	100K/0.1V	130	1.3	1.40	3R3
LPS-3015-4R7□	4.7	M N	100K/0.1V	200	1.1	1.20	4R7
LPS-3015-6R8□	6.8	M N	100K/0.1V	300	0.91	0.90	6R8
LPS-3015-100□	10	M N	100K/0.1V	440	0.65	0.75	100
LPS-3015-150□	15	M N	100K/0.1V	700	0.55	0.59	150
LPS-3015-180□	18	M N	100K/0.1V	750	0.53	0.58	180
LPS-3015-220□	22	M N	100K/0.1V	825	0.49	0.57	220
LPS-3015-330□	33	M N	100K/0.1V	1300	0.42	0.48	330
LPS-3015-470□	47	M N	100K/0.1V	1550	0.32	0.40	470
LPS-3015-680□	68	M N	100K/0.1V	2250	0.28	0.33	680
LPS-3015-101□	100	M	100K/0.1V	3400	0.23	0.26	101

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

(2).IDC1:Base on temp.rise & $\Delta L/LOA \leq 30\%$ MAX

(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

SMD Power Inductors LPS-3030 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-3030-R30□	0.3	N	100K/0.1V	18	5.7	3.90	R30
LPS-3030-R47□	0.47	N	100K/0.1V	23	4.7	3.30	R47
LPS-3030-R72□	0.72	N	100K/0.1V	28	4	3.00	R72
LPS-3030-1R2□	1.2	M N	100K/0.1V	42	3	2.60	1R2
LPS-3030-2R2□	2.2	M N	100K/0.1V	66	2.4	1.80	2R2
LPS-3030-3R3□	3.3	M N	100K/0.1V	101	1.8	1.50	3R3
LPS-3030-4R7□	4.7	M N	100K/0.1V	120	1.7	1.35	4R7
LPS-3030-6R8□	6.8	M N	100K/0.1V	165	1.3	1.10	6R8
LPS-3030-100□	10	M N	100K/0.1V	190	1.1	1.00	100
LPS-3030-150□	15	M N	100K/0.1V	400	0.9	0.72	150
LPS-3030-220□	22	M N	100K/0.1V	575	0.75	0.50	220
LPS-3030-270□	27	M N	100K/0.1V	796	0.67	0.45	270
LPS-3030-330□	33	M N	100K/0.1V	960	0.62	0.40	330

SMD Power Inductors LPS-4012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-4012-R33□	0.33	N	100K/0.1V	23	5.60	3.70	R33
LPS-4012-R47□	0.47	N	100K/0.1V	45	4.00	2.50	R47
LPS-4012-1R0□	1.0	N	100K/0.1V	60	2.80	2.40	1R0
LPS-4012-1R5□	1.5	N	100K/0.1V	70	2.50	2.20	1R5
LPS-4012-2R2□	2.2	N	100K/0.1V	100	2.10	1.75	2R2
LPS-4012-3R3□	3.3	N	100K/0.1V	130	1.50	1.45	3R3
LPS-4012-4R7□	4.7	M N	100K/0.1V	175	1.40	1.30	4R7
LPS-4012-5R6□	5.6	M N	100K/0.1V	260	1.30	1.10	5R6
LPS-4012-6R8□	6.8	M N	100K/0.1V	340	1.20	0.98	6R8
LPS-4012-100□	10	M N	100K/0.1V	350	0.70	0.75	100
LPS-4012-150□	15	M N	100K/0.1V	550	0.60	0.73	150

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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

SMD Power Inductors LPS-4018 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-4018-1R0□	1.0	N	100K/0.1V	40	3.2	2.7	1R0
LPS-4018-1R5□	1.5	N	100K/0.1V	50	2.5	2.3	1R5
LPS-4018-2R2□	2.2	N	100K/0.1V	70	2.4	2.2	2R2
LPS-4018-3R3□	3.3	N	100K/0.1V	80	2	2.0	3R3
LPS-4018-4R7□	4.7	N	100K/0.1V	125	1.5	1.5	4R7
LPS-4018-5R6□	5.6	N	100K/0.1V	135	1.2	1.4	5R6
LPS-4018-6R8□	6.8	N	100K/0.1V	150	1.1	1.3	6R8
LPS-4018-100□	10	M N	100K/0.1V	200	1	1.1	100
LPS-4018-150□	15	M N	100K/0.1V	280	0.7	0.9	150
LPS-4018-180□	18	M N	100K/0.1V	300	0.6	0.7	180
LPS-4018-220□	22	M N	100K/0.1V	360	0.5	0.6	220
LPS-4018-330□	33	M N	100K/0.1V	460	0.45	0.65	330
LPS-4018-470□	47	M N	100K/0.1V	750	0.4	0.55	470
LPS-4018-680□	68	M N	100K/0.1V	1070	0.35	0.45	680
LPS-4018-820□	82	M N	100K/0.1V	1220	0.32	0.40	820
LPS-4018-101□	100	M	100K/0.1V	1640	0.3	0.35	101
LPS-4018-121□	120	M	100K/0.1V	1880	0.25	0.30	121
LPS-4018-151□	150	M	100K/0.1V	2450	0.2	0.25	151
LPS-4018-181□	180	M	100K/0.1V	3000	0.18	0.22	181
LPS-4018-221□	220	M	100K/0.1V	4200	0.16	0.20	221
LPS-4018-331□	330	M	100K/0.1V	5900	0.14	0.18	331
LPS-4018-471□	470	M	100K/0.1V	7100	0.12	0.16	471
LPS-4018-561□	560	M	100K/0.1V	10000	0.11	0.14	561
LPS-4018-681□	680	M	100K/0.1V	11500	0.1	0.12	681

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

(2).IDC1:Base on temp.rise & ΔL/L0A ≤ 30% MAX

(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

SMD Power Inductors LPS-4020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-4020-1R8□	1.8	N	100K/0.1V	51	1.97	2.37	1R8
LPS-4020-2R2□	2.2	N	100K/0.1V	59	1.72	2.19	2R2
LPS-4020-3R3□	3.3	N	100K/0.1V	78	1.52	1.94	3R3
LPS-4020-4R7□	4.7	N	100K/0.1V	98	1.24	1.71	4R7
LPS-4020-6R8□	6.8	N	100K/0.1V	131	1.05	1.47	6R8
LPS-4020-100□	10	M N	100K/0.1V	185	0.85	1.00	100
LPS-4020-150□	15	M N	100K/0.1V	280	0.72	0.90	150
LPS-4020-220□	22	M N	100K/0.1V	431	0.56	0.80	220
LPS-4020-330□	33	M N	100K/0.1V	628	0.47	0.69	330
LPS-4020-470□	47	M N	100K/0.1V	934	0.39	0.56	470
LPS-4020-680□	68	M N	100K/0.1V	1200	0.32	0.50	680
LPS-4020-101□	100	M	100K/0.1V	1400	0.26	0.40	101
LPS-4020-221□	220	M	100K/0.1V	3200	0.18	0.30	221
LPS-4020-561□	560	M	100K/0.1V	6600	0.12	0.20	561

SMD Power Inductors LPS-4025 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-4025-1R2□	1.2	N	100K/0.1V	25m	2.70	3.00	1R2
LPS-4025-4R7□	4.7	M N	100K/0.1V	75m	1.60	1.80	4R7
LPS-4025-6R8□	6.8	M N	100K/0.1V	0.1	1.40	1.70	6R8
LPS-4025-560□	56	M N	100K/0.1V	1.43	0.40	0.55	560
LPS-4025-680□	68	M N	100K/0.1V	2.15	0.35	0.45	680
LPS-4025-820□	82	M N	100K/0.1V	2.35	0.30	0.30	820
LPS-4025-101□	100	M N	100K/0.1V	2.5	0.25	0.25	101

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

(2).IDC1:Base on temp.rise & $\Delta L/L_{0A} \leq 30\%$ MAX

(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

SMD Power Inductors LPS-4030 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-4030-1R0□	1.0	N	100K/0.1V	20	2.8	3.30	1R0
LPS-4030-2R2□	2.2	N	100K/0.1V	35	2.3	2.70	2R2
LPS-4030-3R3□	3.3	N	100K/0.1V	45	2.1	2.50	3R3
LPS-4030-4R7□	4.7	N	100K/0.1V	55	2	2.30	4R7
LPS-4030-6R8□	6.8	N	100K/0.1V	78	1.5	2.00	6R8
LPS-4030-100□	10	M N	100K/0.1V	130	1	1.50	100
LPS-4030-120□	12	M N	100K/0.1V	175	0.9	1.40	120
LPS-4030-150□	15	M N	100K/0.1V	210	0.85	1.30	150
LPS-4030-220□	22	M N	100K/0.1V	290	0.8	1.10	220
LPS-4030-330□	33	M N	100K/0.1V	455	0.7	0.85	330
LPS-4030-470□	47	M N	100K/0.1V	685	0.6	0.70	470
LPS-4030-680□	68	M N	100K/0.1V	955	0.5	0.55	680
LPS-4030-820□	82	M N	100K/0.1V	1100	0.45	0.45	820
LPS-4030-101□	100	M	100K/0.1V	1500	0.4	0.40	101
LPS-4030-151□	150	M	100K/0.1V	2400	0.3	0.35	151
LPS-4030-181□	180	M	100K/0.1V	3600	0.25	0.30	181
LPS-4030-221□	220	M	100K/0.1V	4500	0.18	0.20	221
LPS-4030-471□	470	M	100K/0.1V	5500	0.14	0.15	471

SMD Power Inductors LPS-5015 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5015-1R0□	1.0	N	100K/0.1V	50	3.5	2.65	1R0
LPS-5015-1R5□	1.5	N	100K/0.1V	65	2.6	2.35	1R5
LPS-5015-2R2□	2.2	N	100K/0.1V	90	2.3	2.00	2R2
LPS-5015-3R3□	3.3	N	100K/0.1V	125	2	1.80	3R3

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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

SMD Power Inductors LPS-5015 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5015-4R7□	4.7	N	100K/0.1V	150	1.7	1.62	4R7
LPS-5015-5R6□	5.6	N	100K/0.1V	175	1.6	1.45	5R6
LPS-5015-6R8□	6.8	N	100K/0.1V	225	1.4	1.25	6R8
LPS-5015-8R2□	8.2	N	100K/0.1V	280	1.3	1.05	8R2
LPS-5015-100□	10	M N	100K/0.1V	300	1.1	0.95	100
LPS-5015-120□	12	M N	100K/0.1V	350	1	0.84	120
LPS-5015-150□	15	M N	100K/0.1V	360	0.7	0.82	150
LPS-5015-180□	18	M N	100K/0.1V	550	0.65	0.82	180
LPS-5015-220□	22	M N	100K/0.1V	675	0.6	0.80	220
LPS-5015-330□	33	M N	100K/0.1V	750	0.5	0.70	330
LPS-5015-470□	47	M N	100K/0.1V	1000	0.45	0.55	470
LPS-5015-560□	56	M N	100K/0.1V	1130	0.4	0.50	560
LPS-5015-680□	68	M N	100K/0.1V	1450	0.35	0.40	680
LPS-5015-101□	100	M	100K/0.1V	1950	0.28	0.35	101
LPS-5015-121□	120	M	100K/0.1V	2500	0.26	0.30	121
LPS-5015-151□	150	M	100K/0.1V	3400	0.24	0.28	151
LPS-5015-221□	220	M	100K/0.1V	4500	0.2	0.24	221
LPS-5015-331□	330	M	100K/0.1V	7400	0.16	0.20	331
LPS-5015-471□	470	M	100K/0.1V	7500	0.12	0.18	471

SMD Power Inductors LPS-5020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5020-R33□	0.33	N	100K/0.1V	11	5.8	6.00	R33
LPS-5020-R68□	0.68	N	100K/0.1V	15	4	5.20	R68
LPS-5020-1R0□	1.0	N	100K/0.1V	25	3.5	4.00	1R0
LPS-5020-1R5□	1.5	N	100K/0.1V	35	3.2	3.30	1R5
LPS-5020-2R2□	2.2	N	100K/0.1V	55	2.7	2.75	2R2
LPS-5020-3R3□	3.3	N	100K/0.1V	65	2.4	2.50	3R3

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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

SMD Power Inductors LPS-5020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5020-4R7□	4.7	N	100K/0.1V	80	2.1	2.00	4R7
LPS-5020-5R6□	5.6	M N	100K/0.1V	90	1.95	1.90	5R6
LPS-5020-6R8□	6.8	M N	100K/0.1V	105	1.8	1.70	6R8
LPS-5020-100□	10	M N	100K/0.1V	150	1.4	1.50	100
LPS-5020-150□	15	M N	100K/0.1V	270	1.1	1.20	150
LPS-5020-220□	22	M N	100K/0.1V	350	0.78	0.90	220
LPS-5020-330□	33	M N	100K/0.1V	480	0.65	0.80	330
LPS-5020-470□	47	M N	100K/0.1V	750	0.6	0.70	470
LPS-5020-101□	100	M	100K/0.1V	1210	0.34	0.55	101
LPS-5020-121□	120	M	100K/0.1V	1600	0.3	0.48	121
LPS-5020-151□	150	M	100K/0.1V	2250	0.28	0.40	151
LPS-5020-221□	220	M	100K/0.1V	3300	0.26	0.37	221

SMD Power Inductors LPS-5025 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5025-3R3□	3.3	N	100K/0.1V	60	2.30	1.70	3R3
LPS-5025-4R7□	4.7	N	100K/0.1V	90	2.00	1.50	4R7
LPS-5025-100□	10	M N	100K/0.1V	120	1.50	1.30	100
LPS-5025-220□	22	M N	100K/0.1V	220	1.00	1.10	220
LPS-5025-330□	33	M N	100K/0.1V	300	0.70	1.00	330
LPS-5025-470□	47	M N	100K/0.1V	550	0.65	0.70	470
LPS-5025-680□	68	M N	100K/0.1V	900	0.50	0.55	680
LPS-5025-820□	82	M N	100K/0.1V	1000	0.40	0.50	820
LPS-5025-101□	100	M N	100K/0.1V	1200	0.35	0.45	101
LPS-5025-221□	220	M N	100K/0.1V	1800	0.20	0.30	221

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

(2).IDC1:Base on temp.rise & ΔL/L0A ≤ 30% MAX

(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

SMD Power Inductors LPS-5030 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-5030-1R2□	1.2	N	100K/0.1V	40	3.5	2.65	1R2
LPS-5030-2R2□	2.2	N	100K/0.1V	57	3.1	2.15	2R2
LPS-5030-3R3□	3.3	N	100K/0.1V	66	2.5	1.80	3R3
LPS-5030-4R7□	4.7	N	100K/0.1V	83	2	1.75	4R7
LPS-5030-6R8□	6.8	N	100K/0.1V	99	1.7	1.60	6R8
LPS-5030-8R2□	8.2	N	100K/0.1V	120	1.6	1.50	8R2
LPS-5030-100□	10	M N	100K/0.1V	150	1.5	1.40	100
LPS-5030-120□	15	M N	100K/0.1V	160	1.4	1.30	120
LPS-5030-150□	15	M N	100K/0.1V	175	1.3	1.20	150
LPS-5030-220□	22	M N	100K/0.1V	190	1	1.10	220
LPS-5030-270□	27	M N	100K/0.1V	270	0.9	1.00	270
LPS-5030-330□	33	M N	100K/0.1V	350	0.8	0.90	330
LPS-5030-470□	47	M N	100K/0.1V	500	0.75	0.75	470
LPS-5030-560□	56	M N	100K/0.1V	650	0.65	0.65	560
LPS-5030-680□	68	M N	100K/0.1V	750	0.55	0.60	680
LPS-5030-101□	100	M	100K/0.1V	900	0.45	0.55	101
LPS-5030-221□	220	M	100K/0.1V	1450	0.2	0.40	221
LPS-5030-331□	330	M	100K/0.1V	1800	0.17	0.35	331
LPS-5030-821□	820	M	100K/0.1V	5000	0.12	0.25	821
LPS-5030-102□	1000	M	100K/0.1V	5200	0.1	0.20	102

SMD Power Inductors LPS-6012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6012-2R2□	2.0	N	100K/0.1V	70	2.3	2.3	2R2
LPS-6012-2R5□	2.3	N	100K/0.1V	70	2.3	2.3	2R5
LPS-6012-3R0□	3	N	100K/0.1V	81	2	2	3R0
LPS-6012-3R3□	3.3	N	100K/0.1V	90	1.9	1.9	3R3
LPS-6012-3R9□	3.9	N	100K/0.1V	100	1.7	1.7	3R9

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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

SMD Power Inductors LPS-6012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6012-4R7□	4.7	N	100K/0.1V	130	1.6	1.5	4R7
LPS-6012-5R6□	5.6	N	100K/0.1V	145	1.5	1.4	5R6
LPS-6012-6R8□	6.8	M N	100K/0.1V	165	1.4	1.3	6R8
LPS-6012-8R2□	8.2	M N	100K/0.1V	200	1.2	1.2	8R2
LPS-6012-100□	10	M N	100K/0.1V	240	1.0	1.0	100
LPS-6012-150□	15	M N	100K/0.1V	300	0.8	0.7	150
LPS-6012-220□	22	M N	100K/0.1V	400	0.75	0.65	220
LPS-6012-330□	33	M N	100K/0.1V	570	0.65	0.6	330
LPS-6012-470□	47	M N	100K/0.1V	750	0.6	0.55	470
LPS-6012-101□	100	M	100K/0.1V	1250	0.3	0.3	101

SMD Power Inductors LPS-6015 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6015-2R2□	2.0	N	100K/0.1V	70	2.3	2.3	2R2
LPS-6015-2R5□	2.3	N	100K/0.1V	70	2.3	2.3	2R5
LPS-6015-3R0□	3	N	100K/0.1V	81	2	2	3R0
LPS-6015-3R3□	3.3	N	100K/0.1V	90	1.9	1.9	3R3
LPS-6015-3R9□	3.9	N	100K/0.1V	100	1.7	1.7	3R9
LPS-6015-4R7□	4.7	N	100K/0.1V	130	1.6	1.5	4R7
LPS-6015-5R6□	5.6	N	100K/0.1V	145	1.5	1.4	5R6
LPS-6015-6R8□	6.8	M N	100K/0.1V	165	1.4	1.3	6R8
LPS-6015-8R2□	8.2	M N	100K/0.1V	200	1.2	1.2	8R2
LPS-6015-100□	10	M N	100K/0.1V	240	1.0	1.0	100
LPS-6015-150□	15	M N	100K/0.1V	300	0.8	0.7	150
LPS-6015-220□	22	M N	100K/0.1V	400	0.75	0.65	220
LPS-6015-330□	33	M N	100K/0.1V	570	0.65	0.6	330
LPS-6015-470□	47	M N	100K/0.1V	750	0.6	0.55	470
LPS-6015-101□	100	M	100K/0.1V	1250	0.3	0.3	101

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

(2).IDC1:Base on temp.rise & ΔL/LOA ≤ 30% MAX

(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

SMD Power Inductors LPS-6020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6020-1R3□	1.3	N	100K/0.1V	30.5	3.2	3.0	1R3
LPS-6020-1R5□	1.5	N	100K/0.1V	30.5	3.2	3.0	1R5
LPS-6020-1R8□	1.8	N	100K/0.1V	37.5	3	2.6	1R8
LPS-6020-2R2□	2.2	N	100K/0.1V	40	2.7	2.4	2R2
LPS-6020-2R5□	2.5	N	100K/0.1V	40	2.7	2.4	2R5
LPS-6020-3R3□	3.3	N	100K/0.1V	60	2.5	2.3	3R3
LPS-6020-4R7□	4.7	N	100K/0.1V	70	2.1	2.0	4R7
LPS-6020-6R2□	6.2	M N	100K/0.1V	85	1.9	1.8	6R2
LPS-6020-6R8□	6.8	M N	100K/0.1V	85	1.9	1.8	6R8
LPS-6020-8R2□	8.2	M N	100K/0.1V	125	1.7	1.5	8R2
LPS-6020-100□	10	M N	100K/0.1V	150	1.4	1.2	100
LPS-6020-150□	15	M N	100K/0.1V	220	1.1	1.1	150
LPS-6020-220□	22	M N	100K/0.1V	320	1	0.9	220
LPS-6020-330□	33	M N	100K/0.1V	450	0.9	0.8	330
LPS-6020-470□	47	M N	100K/0.1V	600	0.85	0.7	470
LPS-6020-101□	100	M	100K/0.1V	1200	0.5	0.45	101

SMD Power Inductors LPS-6025 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6025-1R0□	1.0	N	100K/0.1V	35	5.5	1.80	1R0
LPS-6025-1R2□	1.2	N	100K/0.1V	40	5.3	1.65	1R2
LPS-6025-1R5□	1.5	N	100K/0.1V	40	5.3	1.65	1R5
LPS-6025-2R2□	2.2	N	100K/0.1V	45	3.9	1.40	2R2
LPS-6025-3R3□	3.3	N	100K/0.1V	55	3.5	1.35	3R3
LPS-6025-4R7□	4.7	N	100K/0.1V	65	3.1	1.30	4R7
LPS-6025-5R0□	5.0	N	100K/0.1V	65	3.1	1.30	5R0
LPS-6025-6R8□	6.8	M N	100K/0.1V	95	2.7	1.30	6R8
LPS-6025-8R2□	8.2	M N	100K/0.1V	100	2.2	1.30	8R2

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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

SMD Power Inductors LPS-6025 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6025-100□	10	M N	100K/0.1V	105	2	1.30	100
LPS-6025-150□	15	M N	100K/0.1V	135	2	1.20	150
LPS-6025-220□	22	M N	100K/0.1V	175	1.4	1.10	220
LPS-6025-330□	33	M N	100K/0.1V	260	1.1	0.90	330
LPS-6025-470□	47	M N	100K/0.1V	420	0.98	0.80	470
LPS-6025-680□	68	M N	100K/0.1V	500	0.58	0.70	680
LPS-6025-101□	100	M	100K/0.1V	700	0.46	0.60	101
LPS-6025-151□	150	M	100K/0.1V	920	0.4	0.54	151
LPS-6025-471□	470	M	100K/0.1V	2600	0.22	0.37	471

SMD Power Inductors LPS-6030 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6030-1R0□	1.0	N	100K/0.1V	13.85	4.2	4.5	1R0
LPS-6030-1R5□	1.5	N	100K/0.1V	19	4	4.0	1R5
LPS-6030-2R2□	2.2	N	100K/0.1V	23.75	3.8	3.8	2R2
LPS-6030-2R7□	2.7	N	100K/0.1V	32	3.7	3.7	2R7
LPS-6030-3R3□	3.3	N	100K/0.1V	36	3.6	2.7	3R3
LPS-6030-4R7□	4.7	N	100K/0.1V	45	3.3	2.5	4R7
LPS-6030-5R0□	5.0	N	100K/0.1V	45	3.3	2.5	5R0
LPS-6030-6R2□	6.2	M N	100K/0.1V	56	2.5	2.4	6R2
LPS-6030-6R8□	6.8	M N	100K/0.1V	56	2.5	2.4	6R8
LPS-6030-8R2□	8.2	M N	100K/0.1V	70	2.3	2.3	8R2
LPS-6030-100□	10	M N	100K/0.1V	85	2.2	2.2	100
LPS-6030-120□	12	M N	100K/0.1V	100	1.9	1.90	120
LPS-6030-150□	15	M N	100K/0.1V	120	1.7	1.60	150
LPS-6030-220□	22	M N	100K/0.1V	160	1.5	1.40	220
LPS-6030-330□	33	M N	100K/0.1V	220	1.3	1.10	330
LPS-6030-470□	47	M N	100K/0.1V	300	1.1	1.00	470

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\% \text{ MAX}$

(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

SMD Power Inductors LPS-6035 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR(mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
LPS-6035-6R8□	6.8	M N	100K/0.1V	75	2.8	1.90	6R8
LPS-6035-8R2□	8.2	M N	100K/0.1V	95	2.7	1.85	8R2
LPS-6035-100□	10	M N	100K/0.1V	100	2.5	1.80	100
LPS-6035-120□	12	M N	100K/0.1V	110	2.3	1.75	120
LPS-6035-150□	15	M N	100K/0.1V	125	2	1.70	150
LPS-6035-180□	18	M N	100K/0.1V	140	1.9	1.65	180
LPS-6035-220□	22	M N	100K/0.1V	160	1.7	1.60	220
LPS-6035-330□	33	M N	100K/0.1V	180	1.5	1.30	330
LPS-6035-470□	47	M N	100K/0.1V	245	1.2	1.15	470
LPS-6035-560□	56	M N	100K/0.1V	280	1.1	1.07	560
LPS-6035-680□	68	M N	100K/0.1V	345	0.96	1.00	680
LPS-6035-820□	82	M N	100K/0.1V	315	0.55	0.95	820
LPS-6035-101□	100	M	100K/0.1V	375	0.54	0.90	101
LPS-6035-121□	120	M	100K/0.1V	435	0.51	0.80	121
LPS-6035-151□	150	M	100K/0.1V	535	0.45	0.73	151
LPS-6035-221□	220	M	100K/0.1V	820	0.37	0.64	221
LPS-6035-331□	330	M	100K/0.1V	1200	0.3	0.50	331
LPS-6035-471□	470	M	100K/0.1V	1600	0.26	0.43	471
LPS-6035-561□	560	M	100K/0.1V	2000	0.23	0.38	561
LPS-6035-681□	680	M	100K/0.1V	2200	0.21	0.37	681
LPS-6035-821□	820	M	100K/0.1V	2700	0.19	0.33	821
LPS-6035-102□	1000	M	100K/0.1V	3400	0.18	0.30	102
LPS-6035-152□	1500	M	100K/0.1V	4600	0.14	0.26	152
LPS-6035-182□	1800	M	100K/0.1V	5420	0.13	0.23	182
LPS-6035-222□	2200	M	100K/0.1V	6700	0.11	0.22	222
LPS-6035-472□	4700	M	100K/0.1V	14500	0.084	0.15	472

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ MAX

(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