

SMD Shielded Power Inductors – ELPS Series

ELPS Series

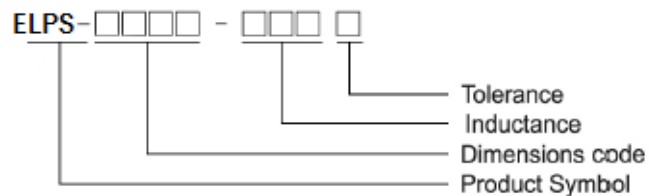
Features

- RoHS compliant
- Very low DCR; excellent current handling
- Compact inductors for power line, considerably smaller compared to inductors with comparable characteristics
- Low coil resistance, making them suitable for large currents

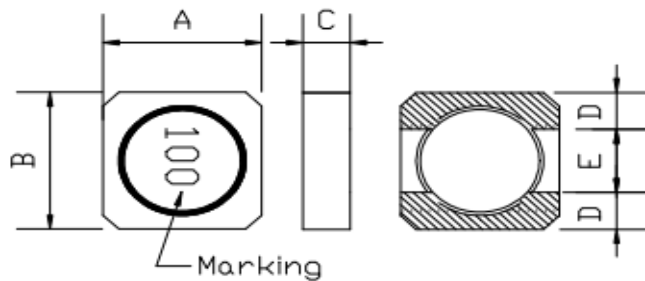
Applications

- Hard disk drives and DSCs
- NB, LCD TV, monitor
- Portable communication devices
- DC / DC converters, etc

Product Identification



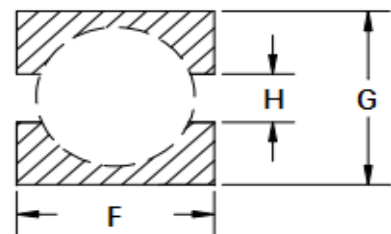
Shapes and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
3010	3.00±0.2	3.00±0.2	1.0 Max.	0.9 Typ.	1.2 Typ.
3012	3.00±0.2	3.00±0.2	1.2 Max.	0.9 Typ.	1.2 Typ.
3015	3.00±0.2	3.00±0.2	1.5 Max.	0.9 Typ.	1.2 Typ.
4012	4.00±0.2	4.00±0.2	1.2 Max.	1.1 Typ.	1.8 Typ.
4018	4.00±0.2	4.00±0.2	1.8 Max.	1.1 Typ.	1.8 Typ.
4020	4.00±0.2	4.00±0.2	2.0 Max.	1.1 Typ.	1.8 Typ.
4025	4.00±0.2	4.00±0.2	2.5 Max.	1.1 Typ.	1.8 Typ.
4030	4.00±0.2	4.00±0.2	3.0 Max.	1.1 Typ.	1.8 Typ.
5010	5.00±0.2	5.00±0.2	1.0 Max.	1.75 Typ.	1.5 Typ.
5015	5.00±0.2	5.00±0.2	1.5 Max.	1.75 Typ.	1.5 Typ.
5020	5.00±0.2	5.00±0.2	2.0 Max.	1.75 Typ.	1.5 Typ.
5025	5.00±0.2	5.00±0.2	2.5 Max.	1.75 Typ.	1.5 Typ.
5030	5.00±0.2	5.00±0.2	3.0 Max.	1.75 Typ.	1.5 Typ.
6012	6.00±0.2	6.00±0.2	1.2 Max.	2.0 Typ.	2.0 Typ.
6015	6.00±0.2	6.00±0.2	1.5 Max.	2.0 Typ.	2.0 Typ.
6020	6.00±0.2	6.00±0.2	2.0 Max.	2.0 Typ.	2.0 Typ.
6025	6.00±0.2	6.00±0.2	2.5 Max.	2.0 Typ.	2.0 Typ.
6030	6.00±0.2	6.00±0.2	3.0 Max.	2.0 Typ.	2.0 Typ.

Recommended Pattern



Dimensions in mm

TYPE	F	G	H
3010	3.3 Typ.	3.3 Typ.	1.0 Typ.
3012	3.3 Typ.	3.3 Typ.	1.0 Typ.
3015	3.3 Typ.	3.3 Typ.	1.0 Typ.
4012	4.4 Typ.	4.4 Typ.	1.8 Typ.
4018	4.4 Typ.	4.4 Typ.	1.8 Typ.
4020	4.4 Typ.	4.4 Typ.	1.8 Typ.
4025	4.4 Typ.	4.4 Typ.	1.8 Typ.
4030	4.4 Typ.	4.4 Typ.	1.8 Typ.
5010	5.4 Typ.	5.4 Typ.	1.5 Typ.
5015	5.4 Typ.	5.4 Typ.	1.5 Typ.
5020	5.4 Typ.	5.4 Typ.	1.5 Typ.
5025	5.4 Typ.	5.4 Typ.	1.5 Typ.
5030	5.4 Typ.	5.4 Typ.	1.5 Typ.
6012	6.6 Typ.	6.6 Typ.	2.0 Typ.
6015	6.6 Typ.	6.6 Typ.	2.0 Typ.
6020	6.6 Typ.	6.6 Typ.	2.0 Typ.
6025	6.6 Typ.	6.6 Typ.	2.0 Typ.
6030	6.6 Typ.	6.6 Typ.	2.0 Typ.

SMD Shielded Power Inductors – ELPS Series

ELPS-3010

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-3010-R47□	0.47	M,T	100K/0.1V	70m	2.30	2.30
ELPS-3010-1R0□	1.0	M,T	100K/0.1V	85m	1.60	1.75
ELPS-3010-1R2□	1.2	M,T	100K/0.1V	0.10	1.50	1.70
ELPS-3010-1R5□	1.5	M,T	100K/0.1V	0.12	1.30	1.60
ELPS-3010-1R8□	1.8	M,T	100K/0.1V	0.15	1.20	1.40
ELPS-3010-2R2□	2.2	M,T	100K/0.1V	0.22	1.10	1.15
ELPS-3010-3R3□	3.3	M,T	100K/0.1V	0.22	0.82	1.05
ELPS-3010-3R9□	3.9	M,T	100K/0.1V	0.25	0.78	0.95
ELPS-3010-4R7□	4.7	M,T	100K/0.1V	0.33	0.72	0.80
ELPS-3010-5R6□	5.6	M,T	100K/0.1V	0.40	0.66	0.78
ELPS-3010-6R8□	6.8	M,T	100K/0.1V	0.45	0.62	0.74
ELPS-3010-8R2□	8.2	M,T	100K/0.1V	0.56	0.55	0.71
ELPS-3010-100□	10	M,T	100K/0.1V	0.63	0.51	0.64
ELPS-3010-120□	12	M,T	100K/0.1V	0.74	0.45	0.55
ELPS-3010-150□	15	M,T	100K/0.1V	0.95	0.40	0.50
ELPS-3010-180□	18	M,T	100K/0.1V	1.00	0.37	0.47
ELPS-3010-220□	22	M,T	100K/0.1V	1.20	0.33	0.41
ELPS-3010-330□	22	M,T	100K/0.1V	2.00	0.27	0.35
ELPS-3010-470□	47	M,T	100K/0.1V	3.20	0.24	0.31

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-3012

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-3012-1R0□	1.0	M,T	100K/0.1V	80m	1.80	1.80
ELPS-3012-1R2□	1.2	M,T	100K/0.1V	95m	1.65	1.70
ELPS-3012-1R5□	1.5	M,T	100K/0.1V	0.11	1.50	1.65
ELPS-3012-2R0□	2.0	M,T	100K/0.1V	0.15	1.30	1.30
ELPS-3012-2R2□	2.2	M,T	100K/0.1V	0.15	1.30	1.30
ELPS-3012-3R3□	3.3	M,T	100K/0.1V	0.18	1.00	1.20
ELPS-3012-4R7□	4.7	M,T	100K/0.1V	0.28	0.85	1.05
ELPS-3012-5R6□	5.6	M,T	100K/0.1V	0.36	0.80	0.85
ELPS-3012-6R8□	6.8	M,T	100K/0.1V	0.42	0.75	0.70
ELPS-3012-8R2□	8.2	M,T	100K/0.1V	0.55	0.65	0.65
ELPS-3012-100□	10	M,T	100K/0.1V	0.62	0.57	0.60
ELPS-3012-150□	15	M,T	100K/0.1V	0.80	0.50	0.50
ELPS-3012-220□	22	M,T	100K/0.1V	1.20	0.40	0.42

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-3015

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-3015-1R0□	1.0	M,T	100K/0.1V	75m	2.00	2.00
ELPS-3015-1R5□	1.5	M,T	100K/0.1V	0.10	1.80	1.70
ELPS-3015-1R8□	1.8	M,T	100K/0.1V	0.10	1.50	1.40
ELPS-3015-2R1□	2.1	M,T	100K/0.1V	0.11	1.50	1.40
ELPS-3015-2R2□	2.2	M,T	100K/0.1V	0.11	1.50	1.40
ELPS-3015-3R3□	3.3	M,T	100K/0.1V	0.13	1.30	1.40
ELPS-3015-4R7□	4.7	M,T	100K/0.1V	0.20	1.10	1.20
ELPS-3015-6R8□	6.8	M,T	100K/0.1V	0.30	0.91	0.90
ELPS-3015-100□	10	M,T	100K/0.1V	0.44	0.65	0.75
ELPS-3015-150□	15	M,T	100K/0.1V	0.70	0.55	0.59
ELPS-3015-180□	18	M,T	100K/0.1V	0.75	0.53	0.58
ELPS-3015-220□	22	M,T	100K/0.1V	0.83	0.49	0.57
ELPS-3015-330□	22	M,T	100K/0.1V	1.30	0.42	0.48
ELPS-3015-470□	47	M,T	100K/0.1V	1.55	0.32	0.40
ELPS-3015-680□	68	M,T	100K/0.1V	2.25	0.28	0.33
ELPS-3015-101□	100	M,T	100K/0.1V	3.40	0.23	0.26

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-4012

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-4012-R33□	0.33	M,T	100K/0.1V	23m	5.60	3.70
ELPS-4012-R47□	0.47	M,T	100K/0.1V	45m	4.00	2.50
ELPS-4012-1R0□	1.0	M,T	100K/0.1V	60m	2.80	2.40
ELPS-4012-1R5□	1.5	M,T	100K/0.1V	70m	2.50	2.20
ELPS-4012-2R2□	2.2	M,T	100K/0.1V	0.10	2.10	1.75
ELPS-4012-3R3□	3.3	M,T	100K/0.1V	0.13	1.50	1.45
ELPS-4012-4R7□	4.7	M,T	100K/0.1V	0.18	1.40	1.30
ELPS-4012-5R6□	5.6	M,T	100K/0.1V	0.26	1.30	1.10
ELPS-4012-6R8□	6.8	M,T	100K/0.1V	0.34	1.20	0.98
ELPS-4012-100□	10	M,T	100K/0.1V	0.35	0.70	0.75
ELPS-4012-150□	15	M,T	100K/0.1V	0.55	0.60	0.73

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-4018

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-4018-R56□	0.56	M,T	100K/0.1V	30m	4.80	2.80
ELPS-4018-1R0□	1.0	M,T	100K/0.1V	40m	3.40	2.70
ELPS-4018-1R5□	1.5	M,T	100K/0.1V	50m	2.70	2.50
ELPS-4018-1R6□	1.6	M,T	100K/0.1V	50m	2.70	2.50
ELPS-4018-2R2□	2.2	M,T	100K/0.1V	70m	2.50	2.20
ELPS-4018-2R5□	2.5	M,T	100K/0.1V	75m	2.40	2.10
ELPS-4018-3R3□	3.3	M,T	100K/0.1V	80m	2.20	2.00
ELPS-4018-3R6□	3.6	M,T	100K/0.1V	0.10	2.00	1.80
ELPS-4018-3R9□	3.9	M,T	100K/0.1V	0.10	2.00	1.80
ELPS-4018-4R7□	4.7	M,T	100K/0.1V	0.125	1.70	1.60
ELPS-4018-5R6□	5.6	M,T	100K/0.1V	0.135	1.50	1.45
ELPS-4018-6R8□	6.8	M,T	100K/0.1V	0.15	1.20	1.30
ELPS-4018-100□	10	M,T	100K/0.1V	0.20	1.10	1.15
ELPS-4018-150□	15	M,T	100K/0.1V	0.28	0.86	0.90
ELPS-4018-180□	18	M,T	100K/0.1V	0.30	0.78	0.88
ELPS-4018-220□	22	M,T	100K/0.1V	0.36	0.74	0.85
ELPS-4018-330□	33	M,T	100K/0.1V	0.46	0.58	0.77
ELPS-4018-470□	47	M,T	100K/0.1V	0.75	0.51	0.63
ELPS-4018-680□	68	M,T	100K/0.1V	1.07	0.41	0.48
ELPS-4018-820□	82	M,T	100K/0.1V	1.22	0.38	0.44
ELPS-4018-101□	100	M,T	100K/0.1V	1.64	0.34	0.42
ELPS-4018-121□	120	M,T	100K/0.1V	1.88	0.31	0.38
ELPS-4018-151□	150	M,T	100K/0.1V	2.45	0.27	0.31
ELPS-4018-181□	180	M,T	100K/0.1V	2.91	0.24	0.30
ELPS-4018-221□	220	M,T	100K/0.1V	4.20	0.22	0.24
ELPS-4018-331□	330	M,T	100K/0.1V	5.90	0.18	0.22
ELPS-4018-471□	470	M,T	100K/0.1V	7.10	0.14	0.20
ELPS-4018-561□	560	M,T	100K/0.1V	10.0	0.13	0.18
ELPS-4018-681□	680	M,T	100K/0.1V	11.5	0.12	0.16
ELPS-4018-821□	820	M,T	100K/0.1V	17.8	0.11	0.12
ELPS-4018-102□	1000	M,T	100K/0.1V	19.4	0.10	0.10
ELPS-4018-152□	1500	M,T	100K/0.1V	30.0	0.08	0.08

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-4020

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-4020-1R8□	1.8	M,T	100K/0.1V	51m	1.97	2.37
ELPS-4020-2R2□	2.2	M,T	100K/0.1V	59m	1.72	2.19
ELPS-4020-3R3□	3.3	M,T	100K/0.1V	78m	1.52	1.94
ELPS-4020-4R7□	4.7	M,T	100K/0.1V	98m	1.24	1.71
ELPS-4020-6R8□	6.8	M,T	100K/0.1V	0.131	1.05	1.47
ELPS-4020-100□	10	M,T	100K/0.1V	0.185	0.85	1.00
ELPS-4020-220□	22	M,T	100K/0.1V	0.431	0.56	0.80
ELPS-4020-330□	33	M,T	100K/0.1V	0.628	0.47	0.69
ELPS-4020-470□	47	M,T	100K/0.1V	0.934	0.39	0.56
ELPS-4020-680□	68	M,T	100K/0.1V	1.20	0.32	0.50
ELPS-4020-101□	100	M,T	100K/0.1V	1.40	0.26	0.40
ELPS-4020-561□	560	M,T	100K/0.1V	6.60	0.12	0.20

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-4025

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-4025-4R7□	4.7	M,T	100K/0.1V	75m	1.60	1.80
ELPS-4025-6R8□	6.8	M,T	100K/0.1V	0.10	1.40	1.70
ELPS-4025-560□	56	M,T	100K/0.1V	1.43	0.40	0.55
ELPS-4025-680□	68	M,T	100K/0.1V	2.15	0.35	0.45
ELPS-4025-820□	82	M,T	100K/0.1V	2.35	0.30	0.30
ELPS-4025-101□	100	M,T	100K/0.1V	2.50	0.25	0.25

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841A TH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-4030

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-4030-1R0□	1.0	M,T	100K/0.1V	20m	2.80	3.30
ELPS-4030-2R2□	2.2	M,T	100K/0.1V	35m	2.30	2.70
ELPS-4030-3R3□	3.3	M,T	100K/0.1V	45m	2.10	2.50
ELPS-4030-4R7□	4.7	M,T	100K/0.1V	55m	2.00	2.30
ELPS-4030-6R8□	6.8	M,T	100K/0.1V	78m	1.50	2.00
ELPS-4030-100□	10	M,T	100K/0.1V	0.130	1.00	1.50
ELPS-4030-120□	12	M,T	100K/0.1V	0.175	0.90	1.40
ELPS-4030-150□	15	M,T	100K/0.1V	0.210	0.85	1.30
ELPS-4030-220□	22	M,T	100K/0.1V	0.290	0.80	1.10
ELPS-4030-330□	33	M,T	100K/0.1V	0.455	0.70	0.85
ELPS-4030-470□	47	M,T	100K/0.1V	0.685	0.60	0.70
ELPS-4030-680□	68	M,T	100K/0.1V	0.955	0.50	0.55
ELPS-4030-820□	82	M,T	100K/0.1V	1.10	0.45	0.45
ELPS-4030-101□	100	M,T	100K/0.1V	1.50	0.40	0.40
ELPS-4030-151□	150	M,T	100K/0.1V	2.40	0.30	0.35
ELPS-4030-181□	180	M,T	100K/0.1V	3.60	0.25	0.30
ELPS-4030-102□	1000	M,T	100K/0.1V	9.00	0.12	0.12

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-5010

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-5010-R33□	0.33	T	100K/0.1V	30m	3.50	3.00
ELPS-5010-R68□	0.68	T	100K/0.1V	48m	2.50	2.00
ELPS-5010-1R0□	1.0	M,T	100K/0.1V	72m	1.70	1.40
ELPS-5010-1R5□	1.5	M,T	100K/0.1V	72m	1.70	1.40
ELPS-5010-2R2□	2.2	M,T	100K/0.1V	0.100	1.40	1.20
ELPS-5010-3R3□	3.3	M,T	100K/0.1V	0.125	1.10	1.10
ELPS-5010-4R7□	4.7	M,T	100K/0.1V	0.175	1.00	0.98
ELPS-5010-5R6□	5.6	M,T	100K/0.1V	0.240	0.90	0.92
ELPS-5010-6R8□	6.8	M,T	100K/0.1V	0.255	0.84	0.85
ELPS-5010-100□	10	M,T	100K/0.1V	0.35	0.68	0.80
ELPS-5010-150□	15	M,T	100K/0.1V	0.50	0.55	0.75
ELPS-5010-220□	22	M,T	100K/0.1V	0.67	0.45	0.62
ELPS-5010-330□	33	M,T	100K/0.1V	1.05	0.38	0.55
ELPS-5010-470□	47	M,T	100K/0.1V	1.45	0.30	0.44
ELPS-5010-680□	68	M,T	100K/0.1V	2.00	0.26	0.35
ELPS-5010-101□	100	M,T	100K/0.1V	3.10	0.22	0.28
ELPS-5010-121□	120	M,T	100K/0.1V	3.50	0.20	0.25
ELPS-5010-151□	150	M,T	100K/0.1V	4.25	0.18	0.23
ELPS-5010-221□	220	M,T	100K/0.1V	6.25	0.15	0.20
ELPS-5010-331□	330	M,T	100K/0.1V	8.60	0.12	0.185
ELPS-5010-471□	470	M,T	100K/0.1V	12.70	0.09	0.150
ELPS-5010-561□	560	M,T	100K/0.1V	15.70	0.085	0.135

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-5015

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-5015-1R0□	1.0	M,T	100K/0.1V	50m	3.50	2.65
ELPS-5015-1R2□	1.2	M,T	100K/0.1V	50m	3.50	2.65
ELPS-5015-1R3□	1.3	M,T	100K/0.1V	65m	2.60	2.35
ELPS-5015-1R5□	1.5	M,T	100K/0.1V	65m	2.60	2.35
ELPS-5015-1R8□	1.8	M,T	100K/0.1V	75m	2.60	2.15
ELPS-5015-2R2□	2.2	M,T	100K/0.1V	90m	2.60	2.00
ELPS-5015-3R3□	3.3	M,T	100K/0.1V	0.125	2.00	1.80
ELPS-5015-4R7□	4.7	M,T	100K/0.1V	0.150	1.70	1.62
ELPS-5015-5R6□	5.6	M,T	100K/0.1V	0.175	1.60	1.45
ELPS-5015-6R8□	6.8	M,T	100K/0.1V	0.225	1.40	1.25
ELPS-5015-8R2□	8.2	M,T	100K/0.1V	0.280	1.30	1.05
ELPS-5015-100□	10	M,T	100K/0.1V	0.300	1.10	0.95
ELPS-5015-120□	12	M,T	100K/0.1V	0.350	1.00	0.84
ELPS-5015-150□	15	M,T	100K/0.1V	0.360	0.70	0.84
ELPS-5015-180□	18	M,T	100K/0.1V	0.550	0.65	0.83
ELPS-5015-220□	22	M,T	100K/0.1V	0.675	0.65	0.82
ELPS-5015-330□	33	M,T	100K/0.1V	0.750	0.50	0.70
ELPS-5015-470□	47	M,T	100K/0.1V	1.00	0.45	0.57
ELPS-5015-560□	56	M,T	100K/0.1V	1.13	0.40	0.52
ELPS-5015-680□	68	M,T	100K/0.1V	1.45	0.38	0.47
ELPS-5015-101□	100	M,T	100K/0.1V	1.95	0.28	0.42
ELPS-5015-121□	120	M,T	100K/0.1V	2.50	0.28	0.37
ELPS-5015-151□	150	M,T	100K/0.1V	3.40	0.24	0.33
ELPS-5015-221□	220	M,T	100K/0.1V	4.50	0.200	0.29
ELPS-5015-331□	330	M,T	100K/0.1V	7.40	0.165	0.220
ELPS-5015-471□	470	M,T	100K/0.1V	7.50	0.120	0.190
ELPS-5015-561□	560	M,T	100K/0.1V	8.50	0.110	0.135
ELPS-5015-681□	680	M,T	100K/0.1V	10.60	0.100	0.135

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-5020

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-5020-R30□	0.30	T	100K/0.1V	8.75m	6.00	7.00
ELPS-5020-R33□	0.33	T	100K/0.1V	10.65m	5.80	6.00
ELPS-5020-R68□	0.68	T	100K/0.1V	14.70m	4.00	5.20
ELPS-5020-1R0□	1.0	M,T	100K/0.1V	24.55m	3.50	4.00
ELPS-5020-1R3□	1.3	M,T	100K/0.1V	35.0m	3.20	3.30
ELPS-5020-1R5□	1.5	M,T	100K/0.1V	35.0m	3.20	3.30
ELPS-5020-1R8□	1.8	M,T	100K/0.1V	45.0m	3.00	3.00
ELPS-5020-2R2□	2.2	M,T	100K/0.1V	55.0m	2.70	2.75
ELPS-5020-3R3□	3.3	M,T	100K/0.1V	65.0m	2.40	2.50
ELPS-5020-4R7□	4.7	M,T	100K/0.1V	80.0m	2.10	2.00
ELPS-5020-5R6□	5.6	M,T	100K/0.1V	90.0m	1.95	1.90
ELPS-5020-6R8□	6.8	M,T	100K/0.1V	0.105	1.80	1.70
ELPS-5020-100□	10	M,T	100K/0.1V	0.15	1.40	1.50
ELPS-5020-150□	15	M,T	100K/0.1V	0.27	1.10	1.20
ELPS-5020-220□	22	M,T	100K/0.1V	0.35	0.78	0.90
ELPS-5020-330□	33	M,T	100K/0.1V	0.48	0.65	0.80
ELPS-5020-470□	47	M,T	100K/0.1V	0.75	0.60	0.70
ELPS-5020-101□	100	M,T	100K/0.1V	1.21	0.34	0.55
ELPS-5020-121□	120	M,T	100K/0.1V	1.60	0.30	0.48
ELPS-5020-151□	150	M,T	100K/0.1V	2.25	0.28	0.40
ELPS-5020-221□	220	M,T	100K/0.1V	3.30	0.26	0.37

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-5025

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-5025-3R3□	3.3	M,T	100K/0.1V	60m	2.30	1.70
ELPS-5025-100□	10	M,T	100K/0.1V	0.12	1.50	1.30
ELPS-5025-220□	22	M,T	100K/0.1V	0.22	1.00	1.10
ELPS-5025-330□	33	M,T	100K/0.1V	0.30	0.70	1.00
ELPS-5025-470□	47	M,T	100K/0.1V	0.55	0.65	0.70
ELPS-5025-680□	68	M,T	100K/0.1V	0.90	0.50	0.55
ELPS-5025-820□	82	M,T	100K/0.1V	1.00	0.40	0.50
ELPS-5025-101□	100	M,T	100K/0.1V	1.20	0.35	0.45
ELPS-5025-221□	220	M,T	100K/0.1V	1.80	0.20	0.30

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-5030

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-5030-1R2□	1.2	M,T	100K/0.1V	40m	3.50	2.65
ELPS-5030-2R2□	2.2	M,T	100K/0.1V	57m	3.10	2.15
ELPS-5030-3R3□	3.3	M,T	100K/0.1V	66m	2.50	1.80
ELPS-5030-4R7□	4.7	M,T	100K/0.1V	83m	2.00	1.75
ELPS-5030-6R8□	6.8	M,T	100K/0.1V	99m	1.70	1.60
ELPS-5030-8R2□	8.2	M,T	100K/0.1V	0.12	1.60	1.50
ELPS-5030-100□	10	M,T	100K/0.1V	0.15	1.50	1.40
ELPS-5030-150□	15	M,T	100K/0.1V	0.18	1.30	1.20
ELPS-5030-220□	22	M,T	100K/0.1V	0.19	1.00	1.10
ELPS-5030-270□	27	M,T	100K/0.1V	0.27	0.90	1.00
ELPS-5030-330□	33	M,T	100K/0.1V	0.35	0.80	0.90
ELPS-5030-470□	47	M,T	100K/0.1V	0.50	0.75	0.75
ELPS-5030-560□	56	M,T	100K/0.1V	0.65	0.65	0.65
ELPS-5030-101□	100	M,T	100K/0.1V	0.90	0.45	0.55
ELPS-5030-331□	330	M,T	100K/0.1V	1.80	0.17	0.42

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-6012

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-6012-2R2□	2.2	T	100K/0.1V	70m	2.30	2.30
ELPS-6012-2R5□	2.5	T	100K/0.1V	70m	2.30	2.30
ELPS-6012-3R0□	3.0	T	100K/0.1V	81m	2.00	2.00
ELPS-6012-3R3□	3.3	T	100K/0.1V	90m	1.90	1.90
ELPS-6012-3R9□	3.9	T	100K/0.1V	0.100	1.70	1.70
ELPS-6012-4R7□	4.7	M,T	100K/0.1V	0.130	1.60	1.50
ELPS-6012-5R6□	5.6	M,T	100K/0.1V	0.145	1.50	1.40
ELPS-6012-6R8□	6.8	M,T	100K/0.1V	0.165	1.40	1.30
ELPS-6012-8R2□	8.2	M,T	100K/0.1V	0.200	1.20	1.20
ELPS-6012-100□	10	M,T	100K/0.1V	0.240	1.00	1.00

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR: Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-6015

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-6015-3R0□	3.0	T	100K/0.1V	65m	2.20	2.10
ELPS-6015-3R3□	3.3	T	100K/0.1V	75m	2.10	2.00
ELPS-6015-3R6□	3.6	T	100K/0.1V	80m	2.00	1.90
ELPS-6015-6R8□	6.8	M,T	100K/0.1V	0.13	1.60	1.40

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-6020

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-6020-1R3□	1.3	T	100K/0.1V	30.5m	3.20	3.00
ELPS-6020-1R5□	1.5	T	100K/0.1V	30.5m	3.20	3.00
ELPS-6020-1R8□	1.8	T	100K/0.1V	37.5m	3.00	2.60
ELPS-6020-2R2□	2.2	M,T	100K/0.1V	40m	2.70	2.40
ELPS-6020-2R5□	2.5	M,T	100K/0.1V	40m	2.70	2.40
ELPS-6020-3R3□	3.3	M,T	100K/0.1V	60m	2.50	2.30
ELPS-6020-4R7□	4.7	M,T	100K/0.1V	70m	2.10	2.00
ELPS-6020-6R2□	6.2	M,T	100K/0.1V	85m	1.90	1.80
ELPS-6020-6R8□	6.8	M,T	100K/0.1V	85m	1.90	1.80
ELPS-6020-8R2□	8.2	M,T	100K/0.1V	0.13	1.70	1.50
ELPS-6020-100□	10	M,T	100K/0.1V	0.15	1.40	1.20
ELPS-6020-150□	15	M,T	100K/0.1V	0.22	1.10	1.10
ELPS-6020-220□	22	M,T	100K/0.1V	0.32	1.00	0.90
ELPS-6020-330□	33	M,T	100K/0.1V	0.45	0.90	0.80
ELPS-6020-470□	47	M,T	100K/0.1V	0.60	0.85	0.70
ELPS-6020-101□	100	M,T	100K/0.1V	1.20	0.50	0.45

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-6025

Standard Specifications

Part No.	Inductance (μ H)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-6025-1R0□	1.0	T	100K/0.1V	35m	5.50	1.80
ELPS-6025-1R2□	1.2	T	100K/0.1V	40m	5.30	1.65
ELPS-6025-1R5□	1.5	T	100K/0.1V	40m	5.30	1.65
ELPS-6025-2R2□	2.2	M,T	100K/0.1V	45m	3.90	1.40
ELPS-6025-3R3□	3.3	M,T	100K/0.1V	55m	3.50	1.35
ELPS-6025-4R7□	4.7	M,T	100K/0.1V	65m	3.10	1.30
ELPS-6025-5R0□	5.0	M,T	100K/0.1V	65m	3.10	1.30
ELPS-6025-6R8□	6.8	M,T	100K/0.1V	95m	2.70	1.30
ELPS-6025-8R2□	8.2	M,T	100K/0.1V	0.100	2.20	1.30
ELPS-6025-100□	10	M,T	100K/0.1V	0.105	2.00	1.30
ELPS-6025-150□	15	M,T	100K/0.1V	0.135	2.00	1.20
ELPS-6025-220□	22	M,T	100K/0.1V	0.175	1.40	1.10
ELPS-6025-330□	33	M,T	100K/0.1V	0.26	1.10	0.90
ELPS-6025-470□	47	M,T	100K/0.1V	0.42	0.98	0.80

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

SMD Shielded Power Inductors – ELPS Series

ELPS-6030

Standard Specifications

Part No.	Inductance (uH)	Percent Tolerance	Test frequency (Hz)	DC resistance (Ω)MAX	Saturation current (Isat) (A)MAX.	Heat Rating current (Irms) (A)MAX.
ELPS-6030-1R0□	1.0	T	100K/0.1V	13.85m	4.20	4.50
ELPS-6030-1R5□	1.5	T	100K/0.1V	19.00m	4.00	4.00
ELPS-6030-2R2□	2.2	M,T	100K/0.1V	23.75m	3.80	3.80
ELPS-6030-2R7□	2.7	M,T	100K/0.1V	32m	3.70	3.70
ELPS-6030-3R3□	3.3	M,T	100K/0.1V	36m	3.60	2.75
ELPS-6030-4R7□	4.7	M,T	100K/0.1V	45m	3.30	2.50
ELPS-6030-5R0□	5.0	M,T	100K/0.1V	45m	3.30	2.50
ELPS-6030-6R2□	6.2	M,T	100K/0.1V	56m	2.50	2.40
ELPS-6030-6R8□	6.8	M,T	100K/0.1V	56m	2.50	2.40
ELPS-6030-8R2□	8.2	M,T	100K/0.1V	70m	2.30	2.30
ELPS-6030-100□	10	M,T	100K/0.1V	85m	2.20	2.20
ELPS-6030-120□	12	M,T	100K/0.1V	0.10	1.90	1.90
ELPS-6030-150□	15	M,T	100K/0.1V	0.12	1.70	1.60
ELPS-6030-220□	22	M,T	100K/0.1V	0.16	1.50	1.40
ELPS-6030-330□	33	M,T	100K/0.1V	0.22	1.30	1.10
ELPS-6030-470□	47	M,T	100K/0.1V	0.30	1.10	1.00

- □ specify the inductance tolerance, M=±20%, T=±30%
- Isat for inductance drop 30% from its value without current
- Irms for a 40C° rise above temperature 25C° ambient
- Rated DC Current : The less value which is Isat or Irms

Test Instrument :

L: HP4284A+HP16334A OR TH2829A

DCR:Chroma 16502 OR TH2512B

Isat : HP4284+42841ATH2829A+TH1773 OR TH2829A+TH1773

Irms : Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773