

SMD Power inductors

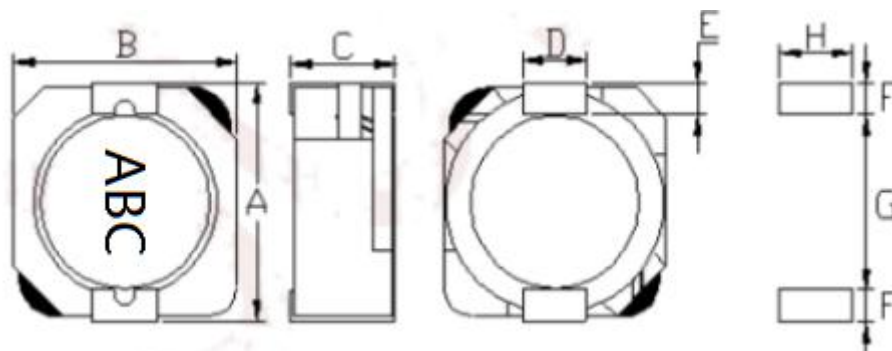
2-3	KSE-CD104R
4-5	KSE-CD127
6-7	KSE-CD127/LD
8-11	KSE-CD4D
12-14	KSE-CD5D
15-18	KSE-CD8D
19-20	KSE-SD0604
21-22	KSE-SD0805

Radial Power inductors

23-24	KSE-RL0914
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1 Dimension:

Unit: mm



A	10.2±0.3
B	10.0±0.3
C	3.80±0.3
D	3.0Ref.
E	1.2Ref
F	1.6Ref
G	7.3Ref
H	3.2Ref

2 Product Spec. Model

KSE - CD 104R NP -100 N C
a b c e f g

KSE - Brand

a: Series name

b: Product dimensions code

c: Lead-free

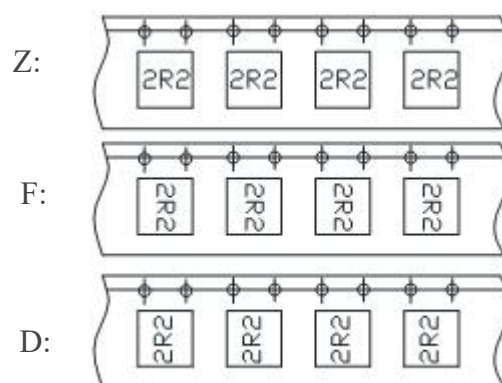
e: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

g: Package (C:Tape & Reel, B: Bulk)

▶ Lettering direction



F- direction (typ.)

3 MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DR9.6*3.7D-3 B4.9 SRI10*8.2*3.2 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180°C
3	ADHESIVE	EL4355-01 OR EQUIVALENT	NA	NA
4	BASE	C-TSB104R P1	NA	NA
5	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

*NA: NOT APPLICABLE

4 Electrical Characteristics List

Part NO.	Inductance(uH)	Test Freq. (kHz/V)	DCR Max (Ω)	Saturation current Isat (A)	Temperature rise current Irms (A)
KSE-CD104RNP-1R5NC	1.5	100/0.25	0.008	10.00	6.50
KSE-CD104RNP-2R7NC	2.7	100/0.25	0.011	7.50	6.10
KSE-CD104RNP-3R9NC	3.9	100/0.25	0.013	6.00	5.50
KSE-CD104RNP-5R2NC	5.2	100/0.25	0.022	5.50	5.40
KSE-CD104RNP-6R8NC	6.8	100/0.25	0.027	4.80	4.50
KSE-CD104RNP-100NC	10	100/0.25	0.035	4.40	3.80
KSE-CD104RNP-120MC	12	100/0.25	0.046	3.70	3.40
KSE-CD104RNP-150MC	15	100/0.25	0.062	3.30	3.10
KSE-CD104RNP-180MC	18	100/0.25	0.069	3.10	2.60
KSE-CD104RNP-220MC	22	100/0.25	0.073	2.90	2.50
KSE-CD104RNP-270MC	27	100/0.25	0.088	2.60	2.30
KSE-CD104RNP-330MC	33	100/0.25	0.093	2.30	2.20
KSE-CD104RNP-390MC	39	100/0.25	0.127	2.20	2.00
KSE-CD104RNP-470MC	47	100/0.25	0.128	2.10	1.90
KSE-CD104RNP-560MC	56	100/0.25	0.188	1.65	1.50
KSE-CD104RNP-680MC	68	100/0.25	0.213	1.50	1.42
KSE-CD104RNP-820MC	82	100/0.25	0.283	1.45	1.30
KSE-CD104RNP-101MC	100	100/0.25	0.304	1.35	1.25
KSE-CD104RNP-121MC	120	100/0.25	0.375	1.20	1.08
KSE-CD104RNP-151MC	150	100/0.25	0.506	1.15	0.85
KSE-CD104RNP-181MC	180	100/0.25	0.568	1.00	0.75
KSE-CD104RNP-221MC	220	100/0.25	0.756	0.92	0.70
KSE-CD104RNP-271MC	270	100/0.25	0.853	0.84	0.55
KSE-CD104RNP-331MC	330	100/0.25	1.090	0.70	0.52

Tolerance: N:±30%、M:±20%、K:±10%.

Operating temperature range: -40 °C to +105°C (Including Self-heating)

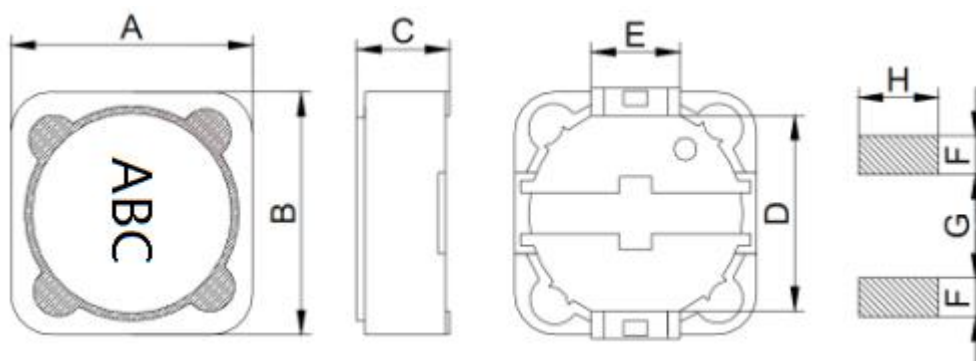
Storage temperature range: -40 °C to +125°C

The rated DC current is that which cause at 35%Max inductance reduction from the initial value or inductor surface temperature to rise by $\leq 40^{\circ}\text{C}$, whichever is smaller (Reference ambient temperature 25°C).

SMD Power Inductors

1 Dimension :

Unit: mm



A	12.0±0.3
B	12.0±0.3
C	8.0 Max.
D	7.6±0.5
E	5.0±0.6
F	2.8 Ref.
G	7.0 Ref.
H	5.4 Ref.

2 Product Spec. Model

KSE - CD 127 NP -100 N C
a b c e f g

KSE Brand

a: Series name

b: Product dimensions code

c: Lead-free

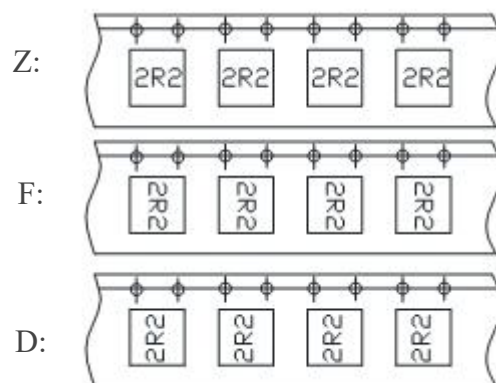
e: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

g: Package (C: Tape & Reel, B: Bulk)

▶ Lettering direction



F- direction (typ.)

3 MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	JPT5HDA 9.9*7*6.0 JPT7H SP 12.2*6.8*10.75 OR EQUIVALENT / (SB02)	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180°C
3	ADHESIVE	JC764-1、G9010 OR EQUIVALENT	NA	NA
4	BASE	SHC-1200B	NA	NA
5	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

*NA:NOT APPLICABLE.

4 Electrical Characteristics List

Part NO.	Inductance (μH)	Test Freq. (KHz/v)	DCR Max (Ω)	Isat (A)	WIRE (φ/mm)	TS (Ref)
KSE-CD127NP-1R0NC	1.0	100/0.25	0.008	14.5	0.45*2	3.5
KSE-CD127NP-1R5NC	1.5	100/0.25	0.010	12.8	0.45*2	4.5
KSE-CD127NP-2R2NC	2.2	100/0.25	0.014	10	0.45*2	5.5
KSE-CD127NP-3R3NC	3.3	100/0.25	0.018	9.5	0.45*2	6.5
KSE-CD127NP-4R7NC	4.7	100/0.25	0.021	8.6	0.45*2	7.5
KSE-CD127NP-5R6NC	5.6	100/0.25	0.024	8.2	0.40*2	8.5
KSE-CD127NP-6R8NC	6.8	100/0.25	0.026	8.0	0.40*2	9.5
KSE-CD127NP-8R2NC	8.2	100/0.25	0.028	7.5	0.40*2	10.5
KSE-CD127NP-100MC	10	100/0.25	0.030	7.0	0.40*2	11.5
KSE-CD127NP-120MC	12	100/0.25	0.035	6.8	0.40*2	12.5
KSE-CD127NP-150MC	15	100/0.25	0.038	6.5	0.40*2	14.5
KSE-CD127NP-180MC	18	100/0.25	0.043	6.2	0.37*2	15.5
KSE-CD127NP-220MC	22	100/0.25	0.045	5.0	0.37*2	17.5
KSE-CD127NP-270MC	27	100/0.25	0.052	4.8	0.35*2	18.5
KSE-CD127NP-330MC	33	100/0.25	0.065	4.5	0.35*2	21.5
KSE-CD127NP-390MC	39	100/0.25	0.073	4.3	0.35*2	22.5
KSE-CD127NP-470MC	47	100/0.25	0.100	4.0	0.31*2	25.5
KSE-CD127NP-560MC	56	100/0.25	0.110	3.8	0.31*2	27.5
KSE-CD127NP-680MC	68	100/0.25	0.140	3.2	0.40	29.5
KSE-CD127NP-820MC	82	100/0.25	0.160	3.0	0.40	33.5
KSE-CD127NP-101MC	100	100/0.25	0.220	2.8	0.40	35.5
KSE-CD127NP-121MC	120	100/0.25	0.250	2.5	0.35	40.5
KSE-CD127NP-151MC	150	100/0.25	0.280	2.2	0.35	46.5
KSE-CD127NP-181MC	180	100/0.25	0.300	2	0.35	49.5
KSE-CD127NP-221MC	220	100/0.25	0.31	1.8	0.35	54.5
KSE-CD127NP-271MC	270	100/0.25	0.403	1.7	0.32	60.5
KSE-CD127NP-331MC	330	100/0.25	0.500	1.6	0.30	68.5
KSE-CD127NP-391MC	391	100/0.25	0.520	1.4	0.30	72.5
KSE-CD127NP-471MC	470	100/0.25	0.750	1.2	0.27	80.5
KSE-CD127NP-561MC	560	100/0.25	0.820	1.1	0.27	84.5
KSE-CD127NP-681MC	680	100/0.25	1.150	0.84	0.25	92.5
KSE-CD127NP-821MC	820	100/0.25	1.400	0.78	0.23	109.5
KSE-CD127NP-102MC	1000	1/0.25	1.820	0.6	0.23	115.5

Tolerance: N:±30%、M:±20%、K:±10%.

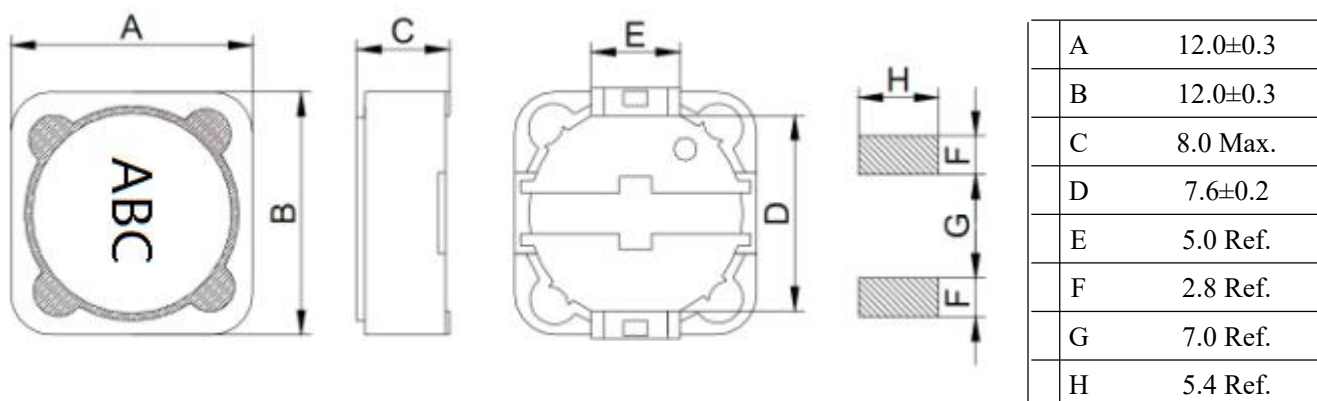
Operating temperature range: -40 ℃ to +105℃ (Including Self-heating)

Storage temperature range: -40 ℃ to +125℃

The rated DC current is that which cause at 25%Max inductance reduction from the initial value.

1 Dimension :

Unit: mm

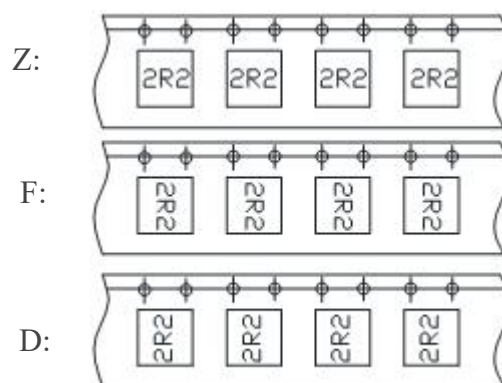


2 Product Spec. Model

KSE - CD 127 / LDNP - 100 N C
a b c e f g

KSE Brand

- a: Series name
- b: Product dimensions code
- c: Low current & Lead-free
- e: Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)
- f: Inductance Tolerance (K:10% ; M:20% ; N:30%)
- g: Package (C: Tape&Reel、B: Bulk)



F- direction (typ.)

3 MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	TW25A RI 12.1*6.6*10.7T TW40A DR 10*7*6.2STD OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180°C
3	ADHESIVE	6020H-6-5 OR EQUIVALENT	NA	NA
4	BASE	C-1200 MS-5 P1	NA	NA
5	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

*NA:NOT APPLICABLE.

4 Electrical Characteristics List

Part NO.	Inductance (uH)	Test Freq. (kHz/v)	DCR Max (Ω)	Isat (A)
KSE-CD127/LDNP-1R2NC	1.2	100/0.25	0.007	9.80
KSE-CD127/LDNP-2R4NC	2.4	100/0.25	0.012	8.00
KSE-CD127/LDNP-3R5NC	3.5	100/0.25	0.014	7.50
KSE-CD127/LDNP-4R7NC	4.7	100/0.25	0.016	6.80
KSE-CD127/LDNP-6R1NC	6.1	100/0.25	0.018	6.60
KSE-CD127/LDNP-7R6NC	7.6	100/0.25	0.020	5.90
KSE-CD127/LDNP-100NC	10	100/0.25	0.022	5.40
KSE-CD127/LDNP-120MC	12	100/0.25	0.024	4.90
KSE-CD127/LDNP-150MC	15	100/0.25	0.030	4.50
KSE-CD127/LDNP-180MC	18	100/0.25	0.039	3.90
KSE-CD127/LDNP-220MC	22	100/0.25	0.043	3.60
KSE-CD127/LDNP-270MC	27	100/0.25	0.046	3.40
KSE-CD127/LDNP-330MC	33	100/0.25	0.065	3.00
KSE-CD127/LDNP-390MC	39	100/0.25	0.073	2.75
KSE-CD127/LDNP-470MC	47	100/0.25	0.100	2.50
KSE-CD127/LDNP-560MC	56	100/0.25	0.110	2.35
KSE-CD127/LDNP-680MC	68	100/0.25	0.140	2.10
KSE-CD127/LDNP-820MC	82	100/0.25	0.160	1.95
KSE-CD127/LDNP-101MC	100	100/0.25	0.220	1.70
KSE-CD127/LDNP-121MC	120	100/0.25	0.250	1.60
KSE-CD127/LDNP-151MC	150	100/0.25	0.280	1.42
KSE-CD127/LDNP-181MC	180	100/0.25	0.350	1.30
KSE-CD127/LDNP-221MC	220	100/0.25	0.390	1.16
KSE-CD127/LDNP-271MC	270	100/0.25	0.560	1.06
KSE-CD127/LDNP-331MC	330	100/0.25	0.640	0.95
KSE-CD127/LDNP-391MC	390	100/0.25	0.700	0.88
KSE-CD127/LDNP-471MC	470	100/0.25	0.980	0.79
KSE-CD127/LDNP-561MC	560	100/0.25	1.070	0.73
KSE-CD127/LDNP-681MC	680	100/0.25	1.460	0.67
KSE-CD127/LDNP-821MC	820	100/0.25	1.640	0.60
KSE-CD127/LDNP-102MC	1000	100/0.25	1.820	0.55

Tolerance: N:±30%、M:±20%、K:±10%.

Operating temperature rang: -40 °C to +105°C (Including Self-heating)

Storage temperature rang: -40 °C to +125°C

The rated DC current is that which cause at 25%Max inductance reduction from the initial value.

SMD Power Inductors



PRODUCT IDENTIFICATION

KSE -	CD	4D28	NP	-100	N	C
	a	b	c	e	f	g

KSE - Brand

a: Series name

b: Product dimensions

c: Lead-free

e: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

g: Package (C: Tape & Reel, B: Bulk)

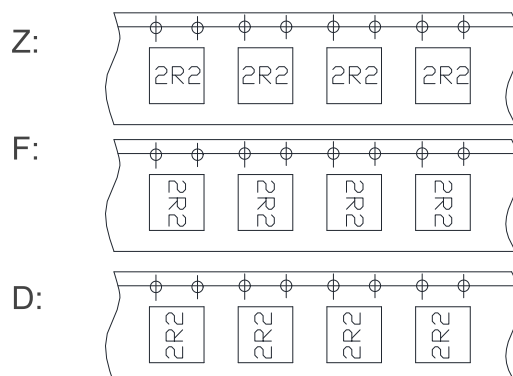
FEATURES

- ◆ Various high power inductors are superior to be high saturation.
- ◆ Suitable for surface mounting equipment.
- ◆ Excellent solderability and high heat resistance.

APPLICATIONS

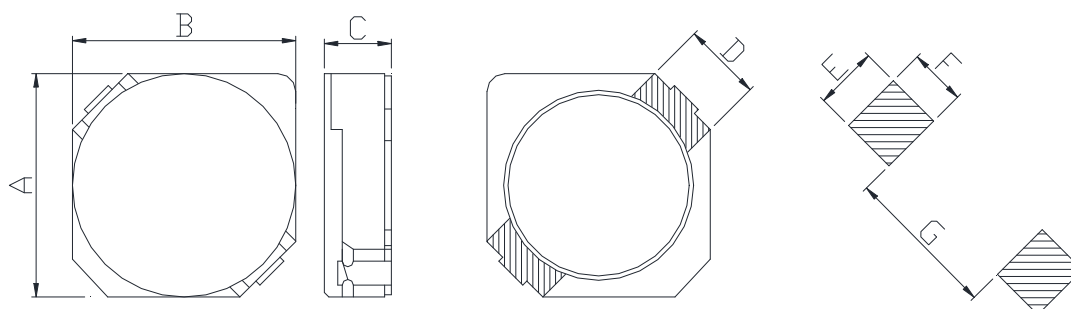
- ◆ Ideally used in Power supply for VTR, OA equipment, Digital camera, LCD television set notebook PC, etc as DC-DC Converter.

▶ Lettering direction



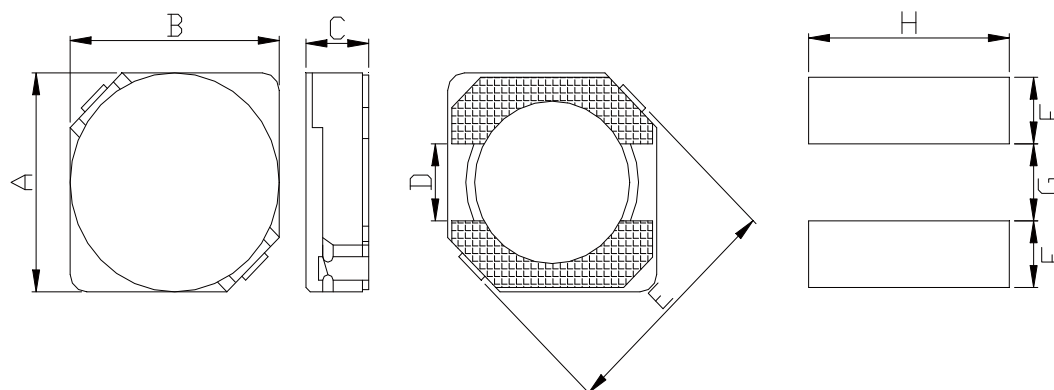
F- direction (typ.)

SHAPES AND DIMENSIONS

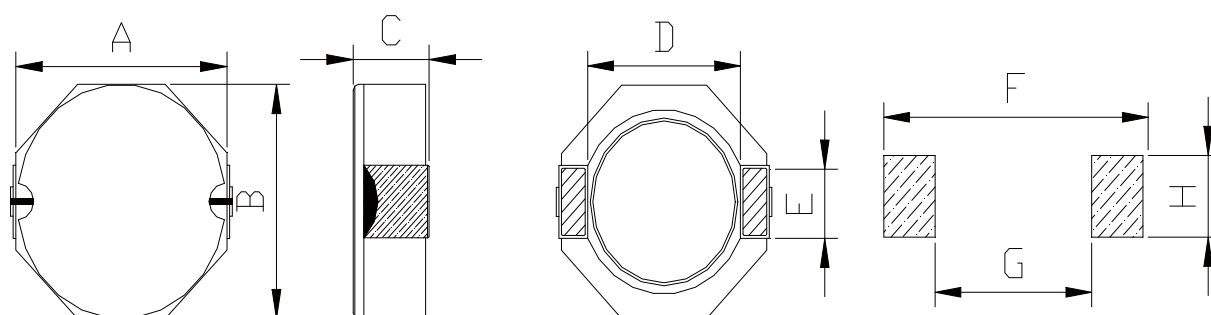


Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

SHAPES AND DIMENSIONS



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
3D16	3.8±0.2	3.8±0.2	1.8	1.15	5.2	1.6	1.2	4.4
3D18	3.8±0.2	3.8±0.2	2.0	1.15	5.2	1.6	1.2	4.4
3D28	3.8±0.2	3.8±0.2	3.1	1.15	5.2	1.6	1.2	4.4
4D18	4.7±0.3	4.7±0.3	2.0	1.50	6.9	1.9	1.5	5.3
4D28	4.7±0.3	4.7±0.3	3.0	1.50	6.9	1.9	1.5	5.3
5D18	5.7±0.3	5.7±0.3	2.0	2.00	8.2	2.15	2.0	6.3
5D28	5.7±0.3	5.7±0.3	3.0	2.00	8.2	2.15	2.0	6.3
6D28	6.7±0.3	6.7±0.3	3.0	2.00	9.5	2.65	2.0	7.3
6D38	6.7±0.3	6.7±0.3	4.0	2.00	9.5	2.65	2.0	7.3



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
8D28	8.0±0.3	8.0±0.3	3.0 Max.	6.3	2.5	10.1	6.1	2.8
8D38	8.0±0.3	8.0±0.3	4.0 Max.	6.3	2.5	10.1	6.1	2.8
8D43	8.0±0.3	8.0±0.3	4.5 Max.	6.3	2.5	10.1	6.1	2.8

Part Number	L (μ H)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD4D18NP-1R0NC	1.0	100/0.25	0.045	1.72
KSE-CD4D18NP-2R2NC	2.2	100/0.25	0.075	1.32
KSE-CD4D18NP-2R7NC	2.7	100/0.25	0.105	1.28
KSE-CD4D18NP-3R3NC	3.3	100/0.25	0.110	1.04
KSE-CD4D18NP-3R9NC	3.9	100/0.25	0.155	0.88
KSE-CD4D18NP-4R7NC	4.7	100/0.25	0.162	0.84
KSE-CD4D18NP-5R6NC	5.6	100/0.25	0.170	0.80
KSE-CD4D18NP-6R8NC	6.8	100/0.25	0.200	0.76
KSE-CD4D18NP-8R2NC	8.2	100/0.25	0.245	0.68
KSE-CD4D18NP-100NC	10	100/0.25	0.200	0.61
KSE-CD4D18NP-120NC	12	100/0.25	0.210	0.56
KSE-CD4D18NP-150NC	15	100/0.25	0.240	0.50
KSE-CD4D18NP-180NC	18	100/0.25	0.338	0.48
KSE-CD4D18NP-220NC	22	100/0.25	0.397	0.41
KSE-CD4D18NP-270NC	27	100/0.25	0.441	0.35
KSE-CD4D18NP-330NC	33	100/0.25	0.694	0.32
KSE-CD4D18NP-390NC	39	100/0.25	0.709	0.30
KSE-CD4D18NP-470NC	47	100/0.25	0.922	0.28
KSE-CD4D18NP-560NC	56	100/0.25	1.080	0.26
KSE-CD4D18NP-680NC	68	100/0.25	1.300	0.24
KSE-CD4D18NP-820NC	82	100/0.25	1.550	0.22
KSE-CD4D18NP-101NC	100	100/0.25	1.730	0.20
KSE-CD4D18NP-121NC	120	100/0.25	2.390	0.18
KSE-CD4D18NP-151NC	150	100/0.25	2.670	0.15
KSE-CD4D18NP-181NC	180	100/0.25	4.000	0.14

Note:

L - inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC:DC current at which the inductance drops approximate 35% from its value without current

Part Number	L (μ H)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD4D28NP-1R2NC	1.2	100/0.25	0.024	2.56
KSE-CD4D28NP-1R8NC	1.8	100/0.25	0.028	2.20
KSE-CD4D28NP-2R2NC	2.2	100/0.25	0.031	2.04
KSE-CD4D28NP-2R7NC	2.7	100/0.25	0.043	1.60
KSE-CD4D28NP-3R3NC	3.3	100/0.25	0.049	1.57
KSE-CD4D28NP-3R9NC	3.9	100/0.25	0.065	1.44
KSE-CD4D28NP-4R7NC	4.7	100/0.25	0.072	1.32
KSE-CD4D28NP-5R6NC	5.6	100/0.25	0.101	1.17
KSE-CD4D28NP-6R8NC	6.8	100/0.25	0.109	1.12
KSE-CD4D28NP-8R2NC	8.2	100/0.25	0.118	1.04
KSE-CD4D28NP-100NC	10	100/0.25	0.128	1.00
KSE-CD4D28NP-120NC	12	100/0.25	0.132	0.84
KSE-CD4D28NP-150NC	15	100/0.25	0.149	0.76
KSE-CD4D28NP-180NC	18	100/0.25	0.166	0.72
KSE-CD4D28NP-220NC	22	100/0.25	0.235	0.70
KSE-CD4D28NP-270NC	27	100/0.25	0.261	0.58
KSE-CD4D28NP-330NC	33	100/0.25	0.378	0.56
KSE-CD4D28NP-390NC	39	100/0.25	0.384	0.50
KSE-CD4D28NP-470NC	47	100/0.25	0.587	0.48
KSE-CD4D28NP-560NC	56	100/0.25	0.625	0.41
KSE-CD4D28NP-680NC	68	100/0.25	0.699	0.35
KSE-CD4D28NP-820NC	82	100/0.25	0.915	0.32
KSE-CD4D28NP-101MC	100	100/0.25	1.020	0.29
KSE-CD4D28NP-121MC	120	100/0.25	1.270	0.27
KSE-CD4D28NP-151MC	150	100/0.25	1.350	0.24
KSE-CD4D28NP-181MC	180	100/0.25	1.540	0.22
KSE-CD4D28NP-221MC	220	100/0.25	1.720	0.20
KSE-CD4D28NP-271MC	270	100/0.25	1.950	0.16
KSE-CD4D28NP-331MC	330	100/0.25	2.660	0.14
KSE-CD4D28NP-391MC	390	100/0.25	2.830	0.13

Note:

L - inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC:DC current at which the inductance drops approximate 35% from its value without current

SMD Power Inductors



FEATURES

- ◆ Various high power inductors are superior to be high saturation.
- ◆ Suitable for surface mounting equipment.
- ◆ Excellent solderability and high heat resistance.

APPLICATIONS

- ◆ Ideally used in Power supply for VTR, OA equipment, Digital camera, LCD television set notebook PC, etc as DC-DC Converter.

PRODUCT IDENTIFICATION

KSE - CD 5D28 NP - 100 N C
 a b c e f g

KSE - Brand

a: Series name

b: Product dimensions

c: Lead-free

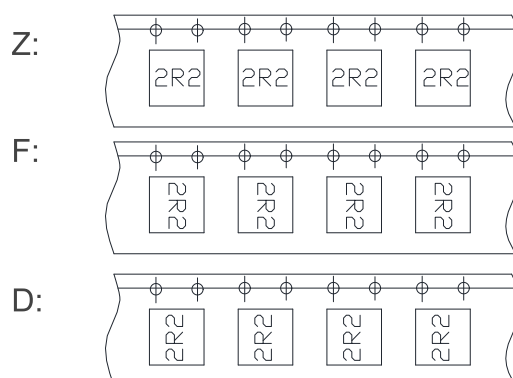
e: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

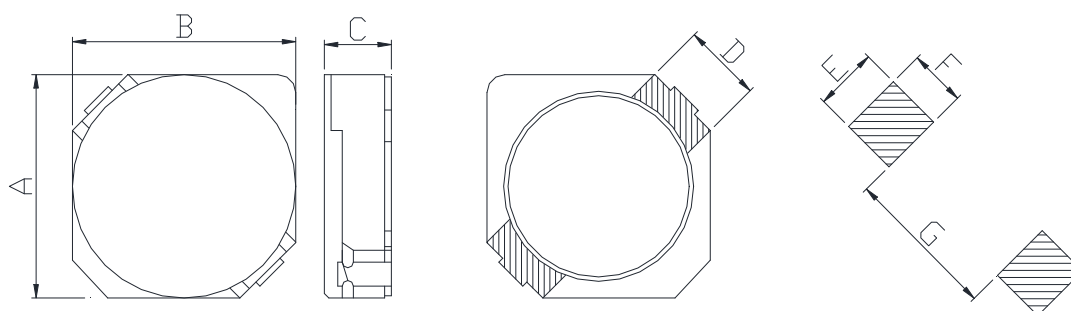
g: Package (C:Tape & Reel, B: Bulk)

▶ Lettering direction



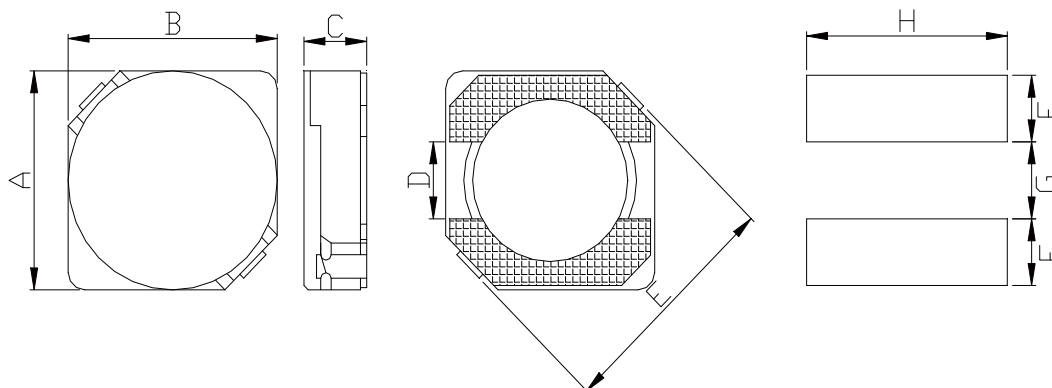
F- direction (typ.)

SHAPES AND DIMENSIONS

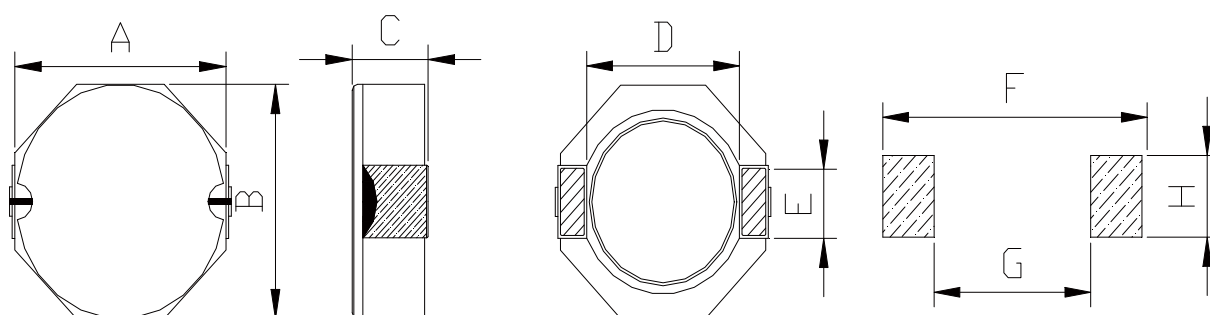


Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

SHAPES AND DIMENSIONS



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
3D16	3.8±0.2	3.8±0.2	1.8	1.15	5.2	1.6	1.2	4.4
3D18	3.8±0.2	3.8±0.2	2.0	1.15	5.2	1.6	1.2	4.4
3D28	3.8±0.2	3.8±0.2	3.1	1.15	5.2	1.6	1.2	4.4
4D18	4.7±0.3	4.7±0.3	2.0	1.50	6.9	1.9	1.5	5.3
4D28	4.7±0.3	4.7±0.3	3.0	1.50	6.9	1.9	1.5	5.3
5D18	5.7±0.3	5.7±0.3	2.0	2.00	8.2	2.15	2.0	6.3
5D28	5.7±0.3	5.7±0.3	3.0	2.00	8.2	2.15	2.0	6.3
6D28	6.7±0.3	6.7±0.3	3.0	2.00	9.5	2.65	2.0	7.3
6D38	6.7±0.3	6.7±0.3	4.0	2.00	9.5	2.65	2.0	7.3



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
8D28	8.0±0.3	8.0±0.3	3.0 Max.	6.3	2.5	10.1	6.1	2.8
8D38	8.0±0.3	8.0±0.3	4.0 Max.	6.3	2.5	10.1	6.1	2.8
8D43	8.0±0.3	8.0±0.3	4.5 Max.	6.3	2.5	10.1	6.1	2.8

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD5D18NP-4R1NC	4.1	100/0.25	0.057	1.95
KSE-CD5D18NP-6R2NC	6.2	100/0.25	0.096	1.40
KSE-CD5D18NP-100NC	10	100/0.25	0.124	1.20
KSE-CD5D18NP-120NC	12	100/0.25	0.153	1.10
KSE-CD5D18NP-150NC	15	100/0.25	0.196	0.97
KSE-CD5D18NP-180NC	18	100/0.25	0.210	0.85
KSE-CD5D18NP-220NC	22	100/0.25	0.290	0.80
KSE-CD5D18NP-330NC	33	100/0.25	0.386	0.65
KSE-CD5D18NP-470NC	47	100/0.25	0.595	0.54
KSE-CD5D18NP-680NC	68	100/0.25	0.840	0.43
KSE-CD5D18NP-820NC	82	100/0.25	0.978	0.41
KSE-CD5D18NP-101NC	100	100/0.25	1.200	0.36
KSE-CD5D18NP-121NC	120	100/0.25	1.500	0.33
KSE-CD5D18NP-151NC	150	100/0.25	1.710	0.31
KSE-CD5D18NP-181NC	180	100/0.25	2.240	0.28

ELECTRICAL CHARACTERISTICS

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD5D28NP-1R0NC	1.0	100/0.25	0.015	2.80
KSE-CD5D28NP-2R2NC	2.2	100/0.25	0.023	2.60
KSE-CD5D28NP-5R6NC	5.6	100/0.25	0.038	1.90
KSE-CD5D28NP-8R2NC	8.2	100/0.25	0.053	1.60
KSE-CD5D28NP-100NC	10	100/0.25	0.065	1.30
KSE-CD5D28NP-120NC	12	100/0.25	0.076	1.20
KSE-CD5D28NP-180NC	18	100/0.25	0.110	1.00
KSE-CD5D28NP-220NC	22	100/0.25	0.122	0.90
KSE-CD5D28NP-330NC	33	100/0.25	0.189	0.75
KSE-CD5D28NP-470NC	47	100/0.25	0.260	0.62
KSE-CD5D28NP-680NC	68	100/0.25	0.355	0.52
KSE-CD5D28NP-101MC	100	100/0.25	0.520	0.42
KSE-CD5D28NP-151MC	150	100/0.25	0.680	0.35
KSE-CD5D28NP-181MC	180	100/0.25	0.930	0.32
KSE-CD5D28NP-221MC	220	100/0.25	1.150	0.30
KSE-CD5D28NP-271MC	270	100/0.25	1.560	0.27
KSE-CD5D28NP-331MC	330	100/0.25	1.980	0.25

Note:

L - inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC:DC current at which the inductance drops approximate 35% from its value without current.

SMD Power Inductors



FEATURES

- ◆ Various high power inductors are superior to be high saturation.
- ◆ Suitable for surface mounting equipment.
- ◆ Excellent solderability and high heat resistance.

APPLICATIONS

- ◆ Ideally used in Power supply for VTR, OA equipment, Digital camera, LCD television set notebook PC, etc as DC-DC Converter.

PRODUCT IDENTIFICATION

KSE -	CD	8D28	NP	- 100	N	C
	a	b	c	e	f	g

KSE - Brand

a: Series name

b: Product dimensions

c: Lead-free

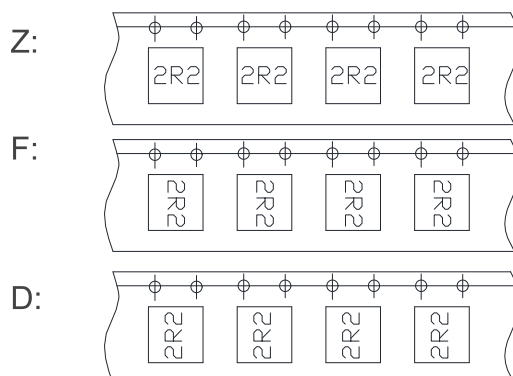
e: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

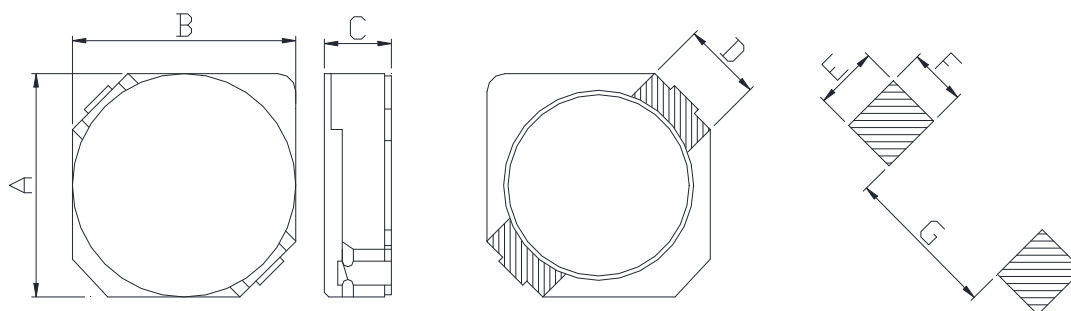
g: Package (C: Tape & Reel, B: Bulk)

▶ Lettering direction



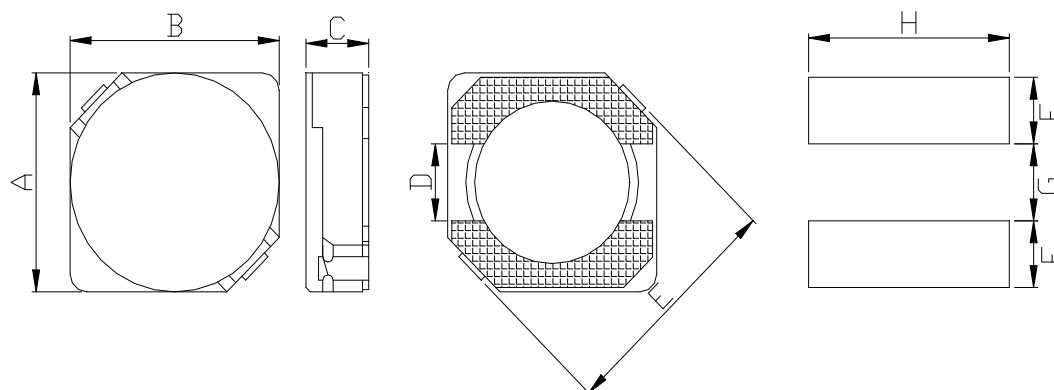
F- direction (typ.)

SHAPES AND DIMENSIONS

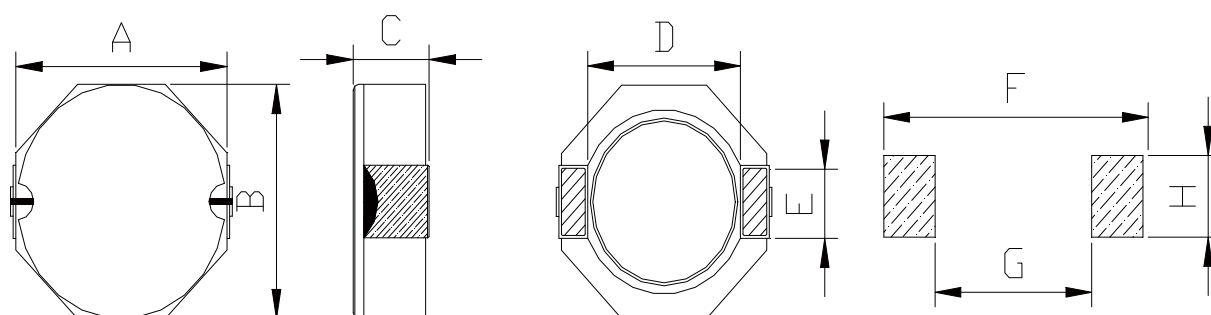


Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

SHAPES AND DIMENSIONS



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
3D16	3.8±0.2	3.8±0.2	1.8	1.15	5.2	1.6	1.2	4.4
3D18	3.8±0.2	3.8±0.2	2.0	1.15	5.2	1.6	1.2	4.4
3D28	3.8±0.2	3.8±0.2	3.1	1.15	5.2	1.6	1.2	4.4
4D18	4.7±0.3	4.7±0.3	2.0	1.50	6.9	1.9	1.5	5.3
4D28	4.7±0.3	4.7±0.3	3.0	1.50	6.9	1.9	1.5	5.3
5D18	5.7±0.3	5.7±0.3	2.0	2.00	8.2	2.15	2.0	6.3
5D28	5.7±0.3	5.7±0.3	3.0	2.00	8.2	2.15	2.0	6.3
6D28	6.7±0.3	6.7±0.3	3.0	2.00	9.5	2.65	2.0	7.3
6D38	6.7±0.3	6.7±0.3	4.0	2.00	9.5	2.65	2.0	7.3



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
8D28	8.0±0.3	8.0±0.3	3.0 Max.	6.3	2.5	10.1	6.1	2.8
8D38	8.0±0.3	8.0±0.3	4.0 Max.	6.3	2.5	10.1	6.1	2.8
8D43	8.0±0.3	8.0±0.3	4.5 Max.	6.3	2.5	10.1	6.1	2.8

Part Number	L (μ H)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD8D28NP-1R0NC	1.0	100/0.25	0.011	6.50
KSE-CD8D28NP-2R5NC	2.5	100/0.25	0.016	4.50
KSE-CD8D28NP-3R3NC	3.3	100/0.25	0.019	4.00
KSE-CD8D28NP-4R7NC	4.7	100/0.25	0.025	3.40
KSE-CD8D28NP-7R3NC	7.3	100/0.25	0.039	2.80
KSE-CD8D28NP-100NC	10	100/0.25	0.047	2.50
KSE-CD8D28NP-150NC	15	100/0.25	0.069	1.90
KSE-CD8D28NP-220NC	22	100/0.25	0.099	1.60
KSE-CD8D28NP-330NC	33	100/0.25	0.156	1.30
KSE-CD8D28NP-470NC	47	100/0.25	0.195	1.15
KSE-CD8D28NP-680NC	68	100/0.25	0.286	0.92
KSE-CD8D28NP-101MC	100	100/0.25	0.430	0.75

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD8D38NP-1R8NC	1.8	100/0.25	0.016	7.00
KSE-CD8D38NP-2R5NC	2.5	100/0.25	0.018	6.50
KSE-CD8D38NP-3R3NC	3.3	100/0.25	0.024	5.00
KSE-CD8D38NP-4R7NC	4.7	100/0.25	0.029	4.60
KSE-CD8D38NP-6R0NC	6.0	100/0.25	0.032	4.20
KSE-CD8D38NP-100NC	10	100/0.25	0.048	3.00
KSE-CD8D38NP-150NC	15	100/0.25	0.067	2.75
KSE-CD8D38NP-220NC	22	100/0.25	0.105	2.30
KSE-CD8D38NP-330NC	33	100/0.25	0.157	1.75
KSE-CD8D38NP-470NC	47	100/0.25	0.189	1.52
KSE-CD8D38NP-680NC	68	100/0.25	0.290	1.30
KSE-CD8D38NP-101MC	100	100/0.25	0.410	1.05

Note:

L: inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC:DC current at which the inductance drops approximate 35% from its value without current;

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-CD8D43NP-1R0NC	1.0	100/0.25	0.010	8.50
KSE-CD8D43NP-1R2NC	1.2	100/0.25	0.013	8.00
KSE-CD8D43NP-2R2NC	2.2	100/0.25	0.014	7.00
KSE-CD8D43NP-3R9NC	3.9	100/0.25	0.019	5.90
KSE-CD8D43NP-4R7NC	4.7	100/0.25	0.022	5.60
KSE-CD8D43NP-6R8NC	6.8	100/0.25	0.025	4.40
KSE-CD8D43NP-100NC	10	100/0.25	0.036	4.00
KSE-CD8D43NP-150NC	15	100/0.25	0.053	2.90
KSE-CD8D43NP-220NC	22	100/0.25	0.075	2.60
KSE-CD8D43NP-330NC	33	100/0.25	0.125	2.20
KSE-CD8D43NP-470NC	47	100/0.25	0.150	1.80
KSE-CD8D43NP-680NC	68	100/0.25	0.240	1.50
KSE-CD8D43NP-101MC	100	100/0.25	0.360	1.30

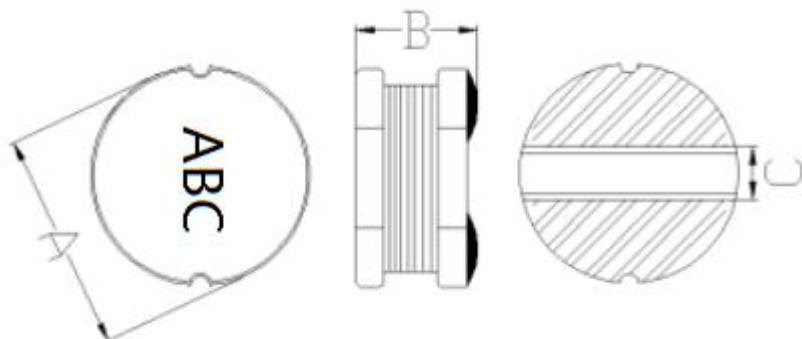
Note:

L: inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC: DC current at which the inductance drops approximate 35% from its value without current;

1 Dimension



Unit: mm

A	5.8MAX
B	4.8MAX
C	2.3Typ

2 Product Spec. Model

KSE - SD 0604 - 100 M L

a
b
f
g
h

KSE brand

a: Series name

b: Product dimensions code

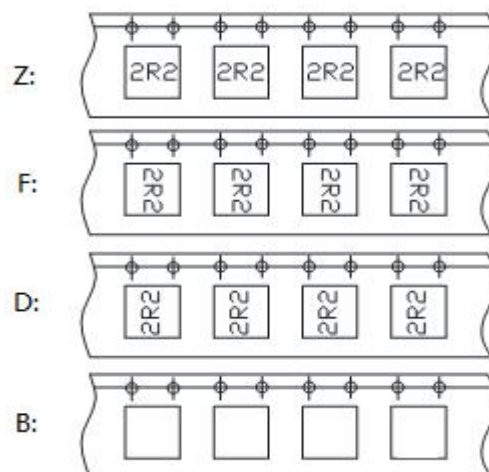
f: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

g: Inductance Tolerance (K:10%; Y:15%; M:20%; N:30%)

h: Package (L: Tape & Reel, B: Bulk)

▶ Lettering direction



F- direction (typ.)

3 Structure



4 MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DR5.6×4.55 B=2.4 F=2.1 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

*NA:NOT APPLICABLE.

5 Electrical Characteristics List

Part NO.	Inductance (uH)	Test Freq. (KHz/v)	DCR Max (mΩ)	Isat (A)	WIRE (φ/mm)	TS (Ref)
KSE-SD0604-1R2ML	1.2	100/0.25	19.0	6.00	0.37	6.5
KSE-SD0604-2R2ML	2.2	100/0.25	30.0	5.00	0.35	8.5
KSE-SD0604-3R3ML	3.3	100/0.25	35.1	4.20	0.35	10.5
KSE-SD0604-4R7ML	4.7	100/0.25	49.4	3.20	0.32	13.5
KSE-SD0604-100ML	10	100/0.25	84.5	2.30	0.30	19.5
KSE-SD0604-120KL	12	100/0.25	88.4	2.20	0.29	20.5
KSE-SD0604-150KL	15	100/0.25	110	2.00	0.28	23.5
KSE-SD0604-220KL	22	100/0.25	169	1.60	0.25	29.5
KSE-SD0604-270KL	27	100/0.25	215	1.40	0.23	32.5
KSE-SD0604-330KL	33	100/0.25	266.0	1.30	0.22	35.5
KSE-SD0604-470KL	47	100/0.25	351.0	1.10	0.21	42.5
KSE-SD0604-680KL	68	100/0.25	494.0	0.95	0.19	50.5
KSE-SD0604-101KL	100	100/0.25	741.0	0.75	0.17	61.5
KSE-SD0604-121KL	120	100/0.25	820	0.70	0.17	66.5
KSE-SD0604-151KL	150	100/0.25	1000	0.62	0.16	74.5
KSE-SD0604-221KL	220	100/0.25	1610	0.50	0.14	90.5
KSE-SD0604-331KL	330	100/0.25	2250	0.36	0.13	111.5
KSE-SD0604-471KL	470	100/0.25	3640	0.35	0.11	131.5

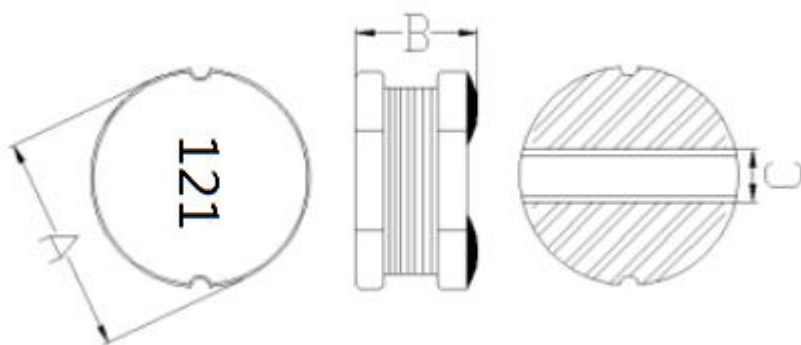
Tolerance: N:±30%、M:±20%、K:±10%.

Operating temperature range: -40℃ to +105℃ (Including Self-heating)

Storage temperature range: -40℃ to +125℃

Isat10%Max (The rated DC current is that which cause at 10%Max inductance reduction from the initial value)

1 Dimension :



Unit: mm

A	7.8MAX
B	5.3MAX
C	2.6Typ

2 Product Spec. Model

KSE - SD 0805 - 100 M L
 a b f g h

a: Series name

b: Product dimensions code

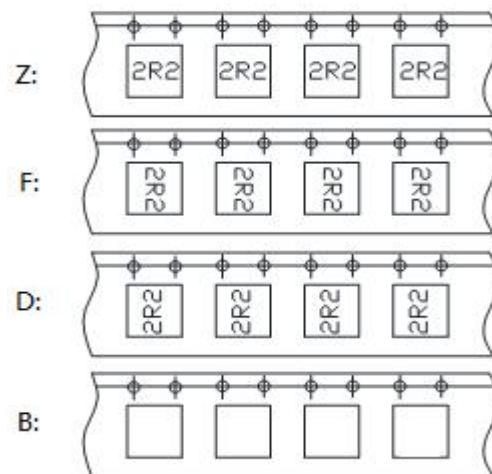
f: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

g: Inductance Tolerance (K:10% ; M:20% ; N:30%)

h: Package (L: Tape & Reel, B: Bulk)

▶ Lettering direction



F- direction (typ.)

3 Structure



4 MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DR7.5×5.0 B=3.4 F=2.5 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

*NA:NOT APPLICABLE.

5 Electrical Characteristics List

Part NO.	Inductance (uH)	Test Freq. (KHz/v)	DCR Max (mΩ)	Isat (A)	WIRE (φ/mm)	TS (Ref)
KSE-SD0805-1R5ML	1.5	100/0.25	16.0	8.00	0.45	6.5
KSE-SD0805-3R3ML	3.3	100/0.25	23.5	6.30	0.45	9.5
KSE-SD0805-4R7ML	4.7	100/0.25	33.8	5.50	0.40	11.5
KSE-SD0805-6R8ML	6.8	100/0.25	40.0	4.50	0.40	13.5
KSE-SD0805-100KL	10	100/ 0.25	56	4.0	0.37	16.5
KSE-SD0805-150KL	15	100/0.25	90.0	2.70	0.32	20.5
KSE-SD0805-220KL	22	100/0.25	117	2.60	0.31	24.5
KSE-SD0805-330KL	33	100/0.25	156	1.90	0.30	30.5
KSE-SD0805-470KL	47	100/0.25	229	1.80	0.27	36.5
KSE-SD0805-680KL	68	100/0.25	300	1.30	0.25	44.5
KSE-SD0805-101KL	100	100/0.25	455	1.20	0.23	52.5
KSE-SD0805-151KL	150	100/0.25	617	1.00	0.22	64.5
KSE-SD0805-221KL	220	100/0.25	960	0.80	0.19	78.5
KSE-SD0805-331KL	330	100/0.25	1390	0.68	0.18	93.5
KSE-SD0805-471KL	470	100/0.25	1960	0.50	0.34	0.16
KSE-SD0805-102KL	1000	100/0.25	4550	0.38	0.13	170.5

Tolerance: N:±30%、M:±20%、K:±10%.

Operating temperature range: -40℃ to +105℃ (Including Self-heating)

Storage temperature range: -40℃ to +125℃

Isat%Max (The rated DC current is that which cause at 10%Max inductance reduction from the initial value).



PRODUCT IDENTIFICATION

KSE - RL 0914 - 100 $\frac{K}{d}$ $\frac{L}{e}$

a b c d e

KSE Brand

a: Series name

b: Dimensions code

c: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

d: Inductance Tolerance (J:5%; K:10% ; M:20%)

e: Package (L: Tape & Reel, B: Bulk)

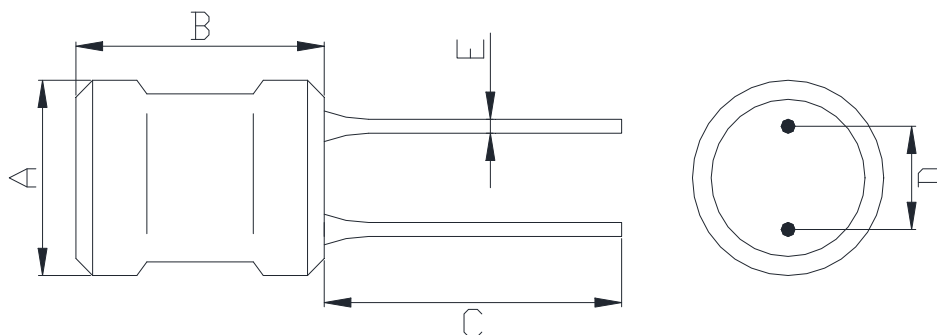
FEATURES

- ◆ Low cost.
- ◆ Wide range of inductance.
- ◆ Small mounting space required.
- ◆ The other types with low DCR, large current, best for the power supply line.

APPLICATIONS

- Power supplies, DC-DC converters, TVs, VTRs, computer, computer peripherals, home electric appliance, ect.

SHAPES AND DIMENSIONS



Series	Dimensions(mm)				
	A Max.	B Max.	C Ref.	D	E Ref.
KSE-RL0406	5.50	8.00	15.0	2.0 ± 0.5	0.50
KSE-RL0608	7.50	10.00	15.0	3.0 ± 0.5	0.60
KSE-RL0914B	10.00	13.00	15.0	5.0 ± 0.5	0.65
KSE-RL0914	11.00	15.00	15.0	5.0 ± 0.5	0.80
KSE-RL1012	12.00	15.00	15.0	5.0 ± 0.5	0.80

Part Number	L (μ H)	Test Freq. (KHz/V)	DCR Max. (Ω)	IDC Max. (A)
KSE-RL0914-1R0ML	1.0	1.0/0.25	0.011	5.00
KSE-RL0914-1R5ML	1.5	1.0/0.25	0.012	4.80
KSE-RL0914-1R8ML	1.8	1.0/0.25	0.013	4.70
KSE-RL0914-2R2ML	2.2	1.0/0.25	0.015	4.60
KSE-RL0914-3R3ML	3.3	1.0/0.25	0.017	4.50
KSE-RL0914-3R9ML	3.9	1.0/0.25	0.019	4.30
KSE-RL0914-4R7ML	4.7	1.0/0.25	0.020	4.00
KSE-RL0914-5R6ML	5.6	1.0/0.25	0.023	3.80
KSE-RL0914-6R8ML	6.8	1.0/0.25	0.025	3.50
KSE-RL0914-8R2ML	8.2	1.0/0.25	0.027	3.00
KSE-RL0914-100KL	10	1.0/0.25	0.035	2.80
KSE-RL0914-120KL	12	1.0/0.25	0.040	2.70
KSE-RL0914-150KL	15	1.0/0.25	0.045	2.30
KSE-RL0914-180KL	18	1.0/0.25	0.050	2.10
KSE-RL0914-220KL	22	1.0/0.25	0.060	2.00
KSE-RL0914-270KL	27	1.0/0.25	0.070	1.70
KSE-RL0914-330KL	33	1.0/0.25	0.100	1.50
KSE-RL0914-390KL	39	1.0/0.25	0.120	1.40
KSE-RL0914-470KL	47	1.0/0.25	0.125	1.30
KSE-RL0914-560KL	56	1.0/0.25	0.130	1.20
KSE-RL0914-680KL	68	1.0/0.25	0.140	1.00
KSE-RL0914-820KL	82	1.0/0.25	0.150	0.90
KSE-RL0914-101KL	100	1.0/0.25	0.160	0.70
KSE-RL0914-121KL	120	1.0/0.25	0.250	0.68
KSE-RL0914-151KL	150	1.0/0.25	0.280	0.65
KSE-RL0914-181KL	180	1.0/0.25	0.320	0.60
KSE-RL0914-221KL	220	1.0/0.25	0.470	0.50
KSE-RL0914-271KL	270	1.0/0.25	0.530	0.45
KSE-RL0914-331KL	330	1.0/0.25	0.600	0.40
KSE-RL0914-391KL	390	1.0/0.25	0.850	0.35
KSE-RL0914-471KL	470	1.0/0.25	0.950	0.33
KSE-RL0914-561KL	560	1.0/0.25	1.100	0.30
KSE-RL0914-681KL	680	1.0/0.25	1.200	0.25
KSE-RL0914-821KL	820	1.0/0.25	1.300	0.20
KSE-RL0914-102KL	1000	1.0/0.25	1.400	0.18
KSE-RL0914-152KL	1500	1.0/0.25	2.900	0.15

Note:

L: inductance

Tolerance: N:±30% , M:±20% , K:±10%

IDC:DC current at which the inductance drops approximate 10% from its value without current.