

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

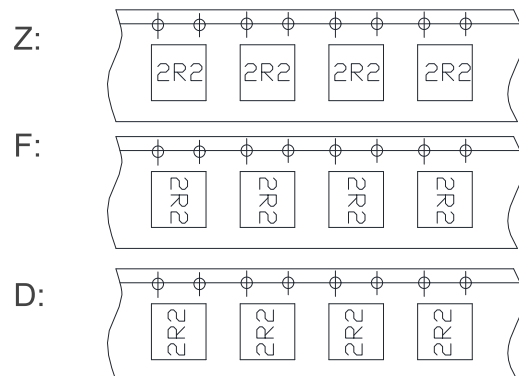
e: Inductance Value

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

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

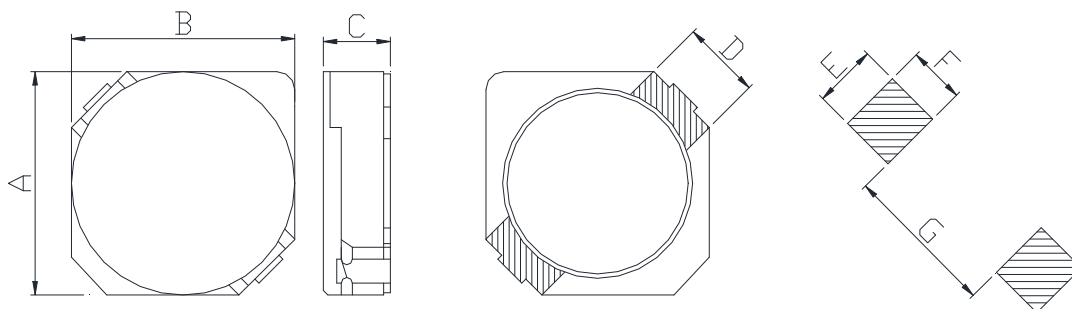
g: Package (C: Tape & Reel, B: Bulk)

▶ Lettering direction



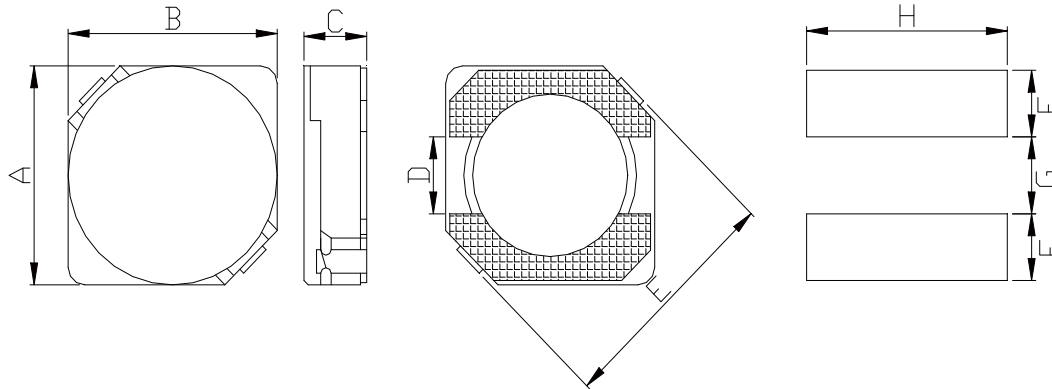
F- direction (typ.)

SHAPES AND DIMENSIONS

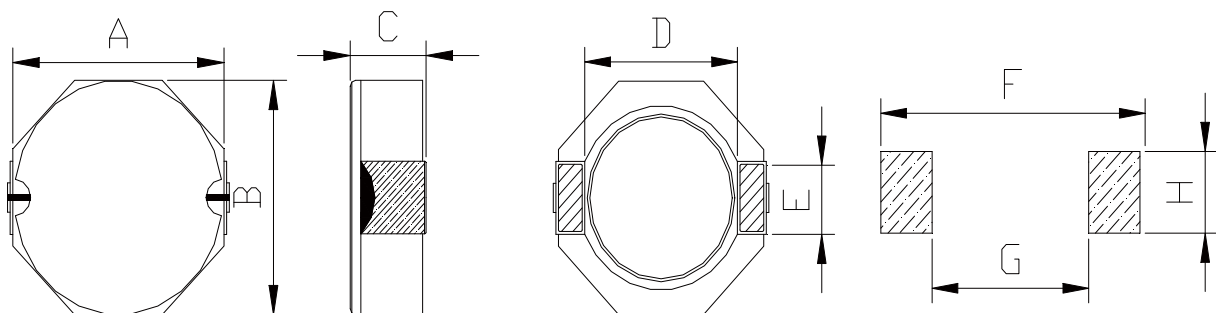


Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

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 (uH)	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 (uH)	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 (μ H)	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: \pm 30% , M: \pm 20% , K: \pm 10%

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