KSE-CD5D

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

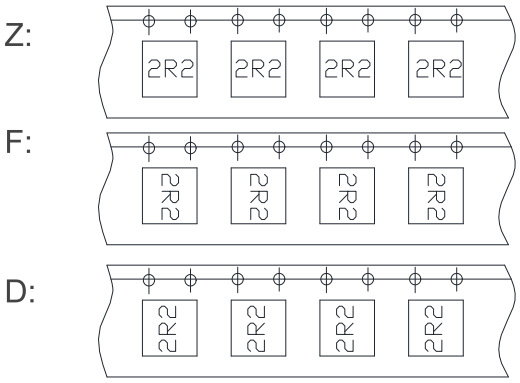
e：Inductance Value

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

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

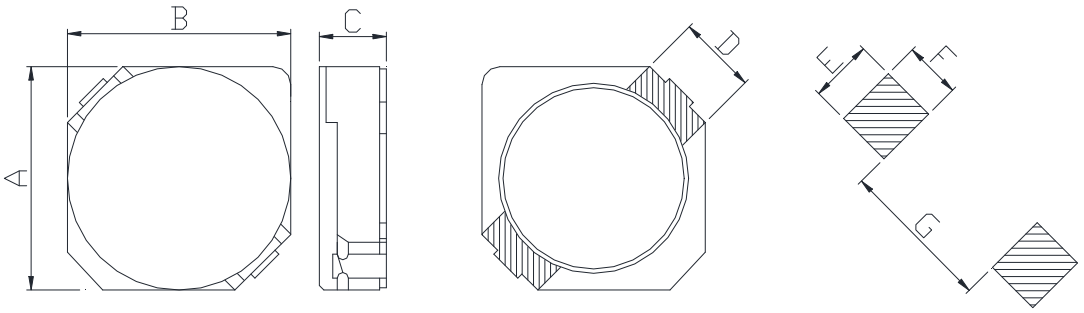
g：Package（C:Tape & Reel, B: Bulk)

Lettering direction



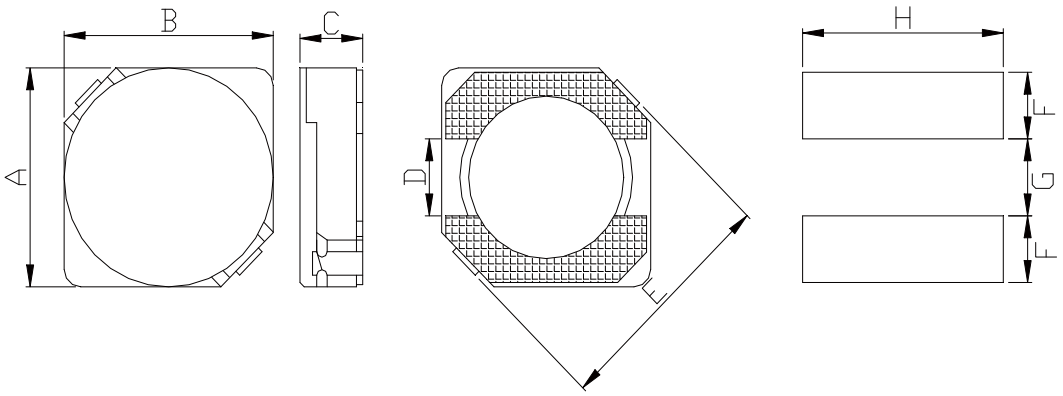
F- direction (typ.)

SHAPES AND DIMENSIONS

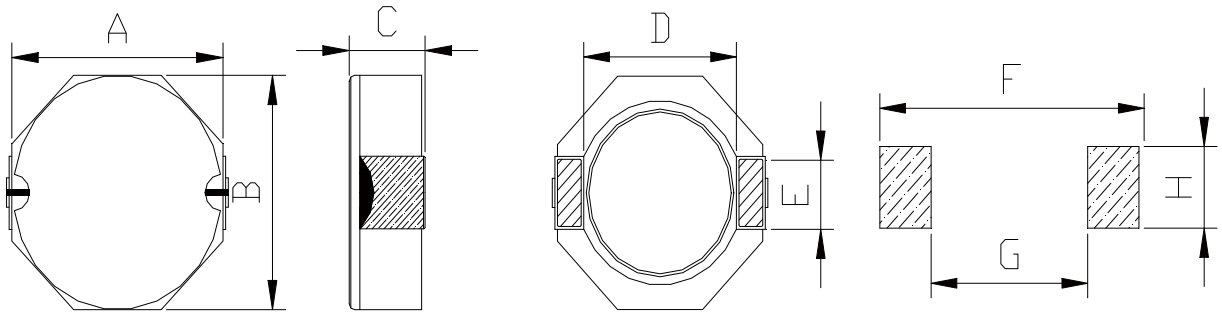


Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

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.