

Data Sheet

Customer: _____

Product: SMD Power Inductor – CSG Series _____

Size : 3D16/4D18/4D28/5D12/5D18/5D28/6D12/6D28/6D38/7D15 _____

7D18/7D25/7D28/8D43/10D15/10D25 _____

Issued Date: 17-Oct.-2023 _____

Edition: Ver. 2 _____

Record of change

Date	Ver.	Description	Page
28-Oct.-2017	1		
17-Oct.-2023	2	Revise Tol. & type / Del. size 2D11	1~19

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Prepared by	Checked by	Approved by	Accepted by (customer)
17-Oct.-2023	17-Oct.-2023	17-Oct.-2023	
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SMD POWER INDUCTORS

CSG SERIES

■ Features

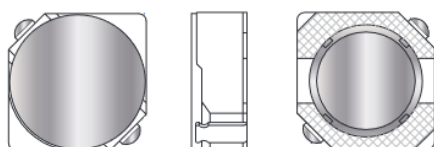
- * The CSG series are characterized by low profile, low DC resistance, and high current handling
- * Magnetically shielded, these parts can be used in high-density mounting configurations.
- * Low resistance to keep power loss minimum.
- * Provided in embossed carrier tape packaging for use with automatic mounting machines.

■ Application

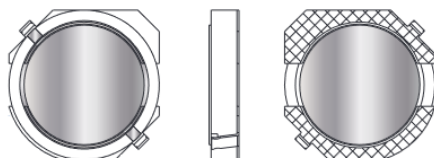
- * Portable Telephone.
- * Personal Computers.
- * DC/DC Converters, etc.
- * Other Various Electronic Equipment.



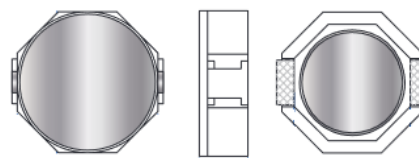
■ Shape



T Type



A Type



B Type

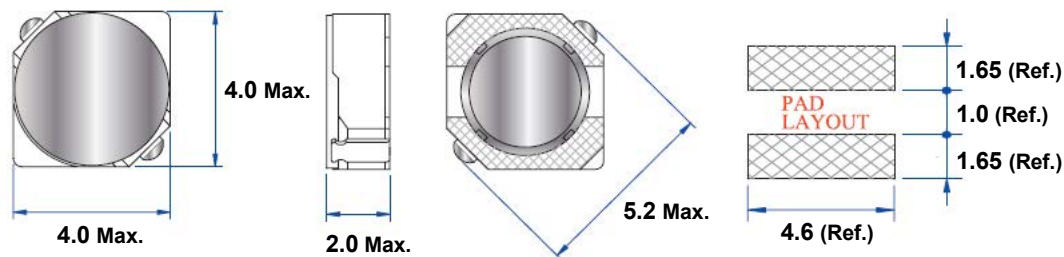
■ Part Numbering

CSG	4D28	T	4R7	M	-	□□
SERIES	SIZE	SHAPE	INDUCTANCE	TOLERANCE		INTERNAL CODE
Wire Wound	3D16	T: T Type	4R7= 4.7uH	M= ±20%		
Shielded	4D18	A: A Type	470= 47uH	N= ±25%		
	4D28	B: B Type	101=100uH	Y= ±30%		
	5D12		102=1000uH			
	5D18					
	5D28					
	6D12					
	6D28					
	6D38					
	7D15					
	7D18					
	7D25					
	7D28					
	8D43					
	10D15					
	10D25					

SMD POWER INDUCTORS

CSG3D16T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

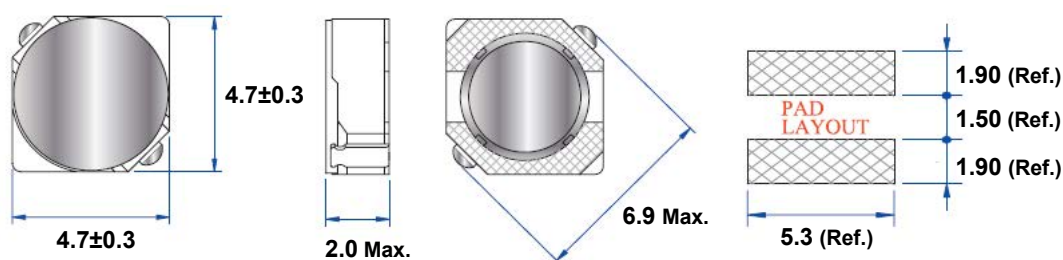
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG3D16T1R5□-□□	1.5	Y	100	52	1.55
CSG3D16T2R2□-□□	2.2	Y	100	72	1.20
CSG3D16T3R3□-□□	3.3	Y	100	85	1.10
CSG3D16T4R7□-□□	4.7	Y	100	105	0.90
CSG3D16T6R8□-□□	6.8	M , N	100	170	0.73
CSG3D16T100□-□□	10	M , N	100	210	0.55
CSG3D16T150□-□□	15	M , N	100	295	0.45
CSG3D16T220□-□□	22	M , N	100	430	0.40
CSG3D16T330□-□□	33	M , N	100	675	0.32

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG4D18T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

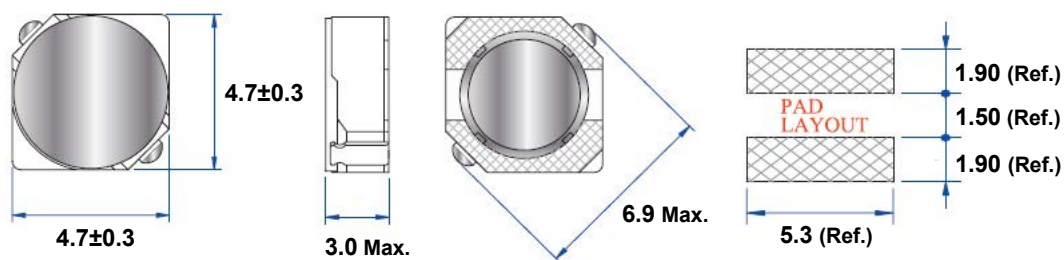
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG4D18T1R0□-□□	1.0	Y	100	45	1.72
CSG4D18T2R2□-□□	2.2	Y	100	75	1.32
CSG4D18T2R7□-□□	2.7	Y	100	105	1.28
CSG4D18T3R3□-□□	3.3	Y	100	110	1.04
CSG4D18T3R9□-□□	3.9	Y	100	155	0.88
CSG4D18T4R7□-□□	4.7	Y	100	162	0.84
CSG4D18T5R6□-□□	5.6	M, N	100	170	0.80
CSG4D18T6R8□-□□	6.8	M, N	100	180	0.76
CSG4D18T8R2□-□□	8.2	M, N	100	190	0.68
CSG4D18T100□-□□	10	M, N	100	200	0.61
CSG4D18T120□-□□	12	M, N	100	210	0.56
CSG4D18T150□-□□	15	M, N	100	240	0.50
CSG4D18T180□-□□	18	M, N	100	338	0.48
CSG4D18T220□-□□	22	M, N	100	397	0.41
CSG4D18T270□-□□	27	M, N	100	441	0.35
CSG4D18T330□-□□	33	M, N	100	694	0.32
CSG4D18T390□-□□	39	M, N	100	709	0.30

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG4D28T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

PART NO.	Inductance (μH)	Tolerance	Test Freq. (KHz)	DCR ($\text{m}\Omega$) Max.	RDC Isat (A)
CSG4D28T1R2□-□□	1.2	Y	100	24	2.56
CSG4D28T1R8□-□□	1.8	Y	100	28	2.20
CSG4D28T2R2□-□□	2.2	Y	100	31	2.04
CSG4D28T2R7□-□□	2.7	Y	100	43	1.60
CSG4D28T3R3□-□□	3.3	Y	100	49	1.57
CSG4D28T3R9□-□□	3.9	Y	100	65	1.44
CSG4D28T4R7□-□□	4.7	Y	100	72	1.32
CSG4D28T5R6□-□□	5.6	M, N	100	101	1.17
CSG4D28T6R8□-□□	6.8	M, N	100	109	1.12
CSG4D28T8R2□-□□	8.2	M, N	100	117	1.04
CSG4D28T100□-□□	10	M, N	100	128	1.00
CSG4D28T120□-□□	12	M, N	100	132	0.84
CSG4D28T150□-□□	15	M, N	100	149	0.76
CSG4D28T180□-□□	18	M, N	100	166	0.72
CSG4D28T220□-□□	22	M, N	100	235	0.70
CSG4D28T270□-□□	27	M, N	100	261	0.58
CSG4D28T330□-□□	33	M, N	100	331	0.56
CSG4D28T390□-□□	39	M, N	100	384	0.50
CSG4D28T470□-□□	47	M, N	100	587	0.48
CSG4D28T560□-□□	56	M, N	100	624	0.41
CSG4D28T680□-□□	68	M, N	100	699	0.35

SMD POWER INDUCTORS

CSG4D28T

2. ELECTRICAL

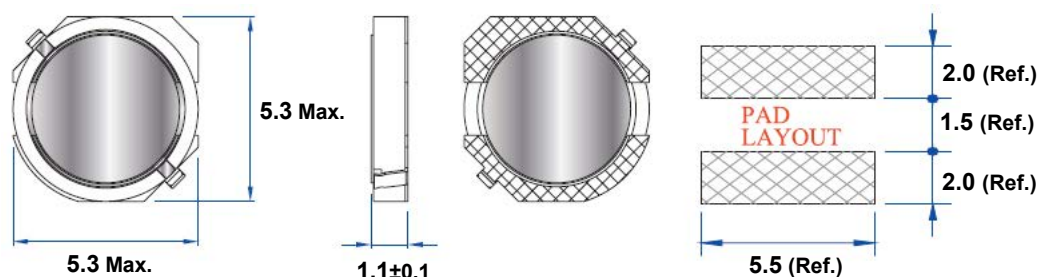
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG4D28T820□-□□	82	M , N	100	915	0.32
CSG4D28T101□-□□	100	M , N	100	1020	0.29
CSG4D28T121□-□□	120	M , N	100	1270	0.27
CSG4D28T151□-□□	150	M , N	100	1350	0.24
CSG4D28T181□-□□	180	M , N	100	1540	0.22

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG5D12A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

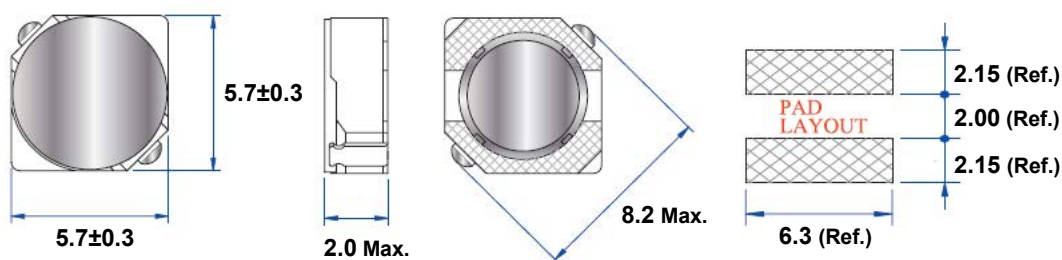
PART NO.	Inductance (uH)	Tolerance	DCR (mΩ) Max.	RDC Isat (A)	RDC Irms (A)
CSG5D12A3R3□-□□	3.3	Y	264	1.60	1.25
CSG5D12A4R7□-□□	4.7	Y	310	1.50	1.20
CSG5D12A6R8□-□□	6.8	M , N	360	1.30	1.10
CSG5D12A8R2□-□□	8.2	M , N	480	1.12	0.95
CSG5D12A100□-□□	10	M , N	530	1.05	0.90
CSG5D12A120□-□□	12	M , N	600	0.92	0.85

- Test Frequency: 100KHz
- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20°C)
Irms: The value of current causes a 40°C temperature rise.(at Ta: 20°C)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG5D18T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

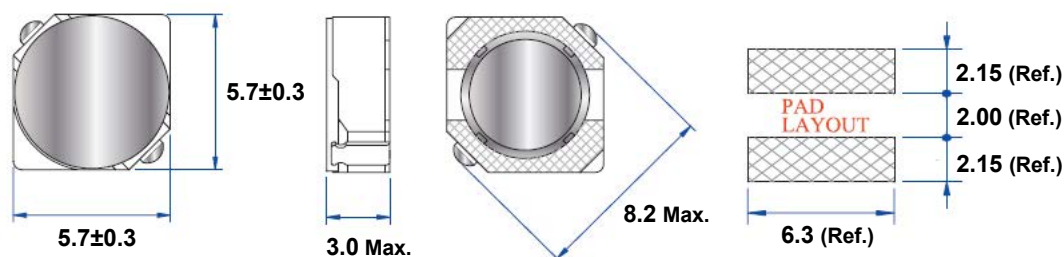
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG5D18T4R1□-□□	4.1	Y	100	57	1.95
CSG5D18T5R4□-□□	5.4	M, N	100	76	1.60
CSG5D18T6R2□-□□	6.2	M, N	100	96	1.40
CSG5D18T8R9□-□□	8.9	M, N	100	116	1.25
CSG5D18T100□-□□	10	M, N	100	124	1.20
CSG5D18T120□-□□	12	M, N	100	153	1.10
CSG5D18T150□-□□	15	M, N	100	196	0.97
CSG5D18T180□-□□	18	M, N	100	210	0.85
CSG5D18T220□-□□	22	M, N	100	290	0.80
CSG5D18T270□-□□	27	M, N	100	330	0.75
CSG5D18T330□-□□	33	M, N	100	385	0.65
CSG5D18T390□-□□	39	M, N	100	520	0.57
CSG5D18T470□-□□	47	M, N	100	595	0.54
CSG5D18T560□-□□	56	M, N	100	665	0.50
CSG5D18T680□-□□	68	M, N	100	840	0.43
CSG5D18T820□-□□	82	M, N	100	978	0.41
CSG5D18T101□-□□	100	M, N	100	1200	0.36

- Inductance Tolerance : M: $\pm 20\%$, N: $\pm 25\%$, Y: $\pm 30\%$
- Operating Temp : -40 to $+125^{\circ}\text{C}$
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG5D28T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

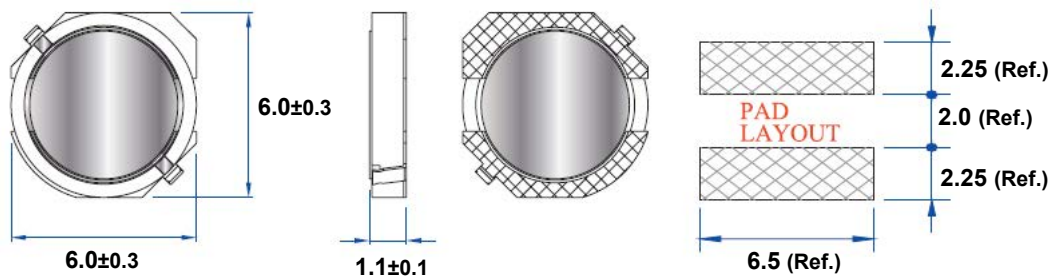
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG5D28T2R5□-□□	2.5	Y	100	18	2.60
CSG5D28T3R0□-□□	3.0	Y	100	24	2.40
CSG5D28T4R2□-□□	4.2	Y	100	31	2.20
CSG5D28T5R3□-□□	5.3	M, N	100	38	1.90
CSG5D28T6R2□-□□	6.2	M, N	100	45	1.80
CSG5D28T8R2□-□□	8.2	M, N	100	53	1.60
CSG5D28T100□-□□	10	M, N	100	65	1.30
CSG5D28T120□-□□	12	M, N	100	76	1.20
CSG5D28T150□-□□	15	M, N	100	103	1.10
CSG5D28T180□-□□	18	M, N	100	110	1.00
CSG5D28T220□-□□	22	M, N	100	122	0.90
CSG5D28T270□-□□	27	M, N	100	175	0.85
CSG5D28T330□-□□	33	M, N	100	189	0.75
CSG5D28T390□-□□	39	M, N	100	212	0.70
CSG5D28T470□-□□	47	M, N	100	250	0.62
CSG5D28T560□-□□	56	M, N	100	305	0.58
CSG5D28T680□-□□	68	M, N	100	355	0.52
CSG5D28T820□-□□	82	M, N	100	463	0.46
CSG5D28T101□-□□	100	M, N	100	520	0.42

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG6D12A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

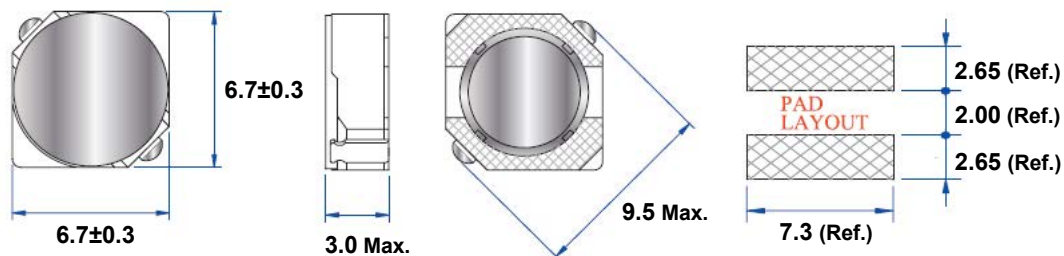
PART NO.	Inductance (uH)	Tolerance	DCR (mΩ) Max.	RDC Isat (A)	RDC Irms (A)
CSG6D12A3R0□-□□	3.0	Y	120	1.90	2.00
CSG6D12A4R7□-□□	4.7	Y	180	1.80	1.90
CSG6D12A6R8□-□□	6.8	M , N	210	1.60	1.80
CSG6D12A8R2□-□□	8.2	M , N	280	1.30	1.60
CSG6D12A100□-□□	10	M , N	310	1.10	1.50
CSG6D12A120□-□□	12	M , N	450	1.00	1.20
CSG6D12A150□-□□	15	M , N	480	0.95	1.10

- Test Frequency: 100KHz
- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20°C)
Irms: The value of current causes a 40°C temperature rise.(at Ta: 20°C)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG6D28T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

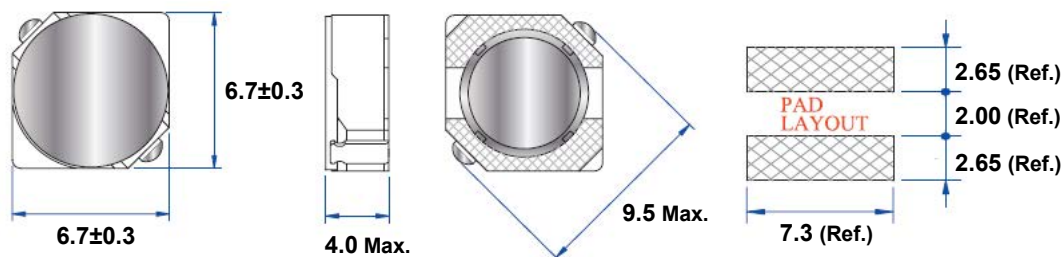
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG6D28T3R0□-□□	3.0	Y	100	24	3.00
CSG6D28T3R9□-□□	3.9	Y	100	27	2.60
CSG6D28T5R0□-□□	5.0	M , N	100	31	2.40
CSG6D28T6R0□-□□	6.0	M , N	100	35	2.25
CSG6D28T7R3□-□□	7.3	M , N	100	54	2.10
CSG6D28T8R6□-□□	8.6	M , N	100	58	1.85
CSG6D28T100□-□□	10	M , N	100	65	1.70
CSG6D28T120□-□□	12	M , N	100	70	1.55
CSG6D28T150□-□□	15	M , N	100	84	1.40
CSG6D28T180□-□□	18	M , N	100	95	1.32
CSG6D28T220□-□□	22	M , N	100	128	1.20
CSG6D28T270□-□□	27	M , N	100	142	1.05
CSG6D28T330□-□□	33	M , N	100	165	0.97
CSG6D28T390□-□□	39	M , N	100	210	0.86
CSG6D28T470□-□□	47	M , N	100	238	0.80
CSG6D28T560□-□□	56	M , N	100	277	0.73
CSG6D28T680□-□□	68	M , N	100	304	0.65
CSG6D28T820□-□□	82	M , N	100	390	0.60
CSG6D28T101□-□□	100	M , N	100	535	0.54

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125℃
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG6D38T

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

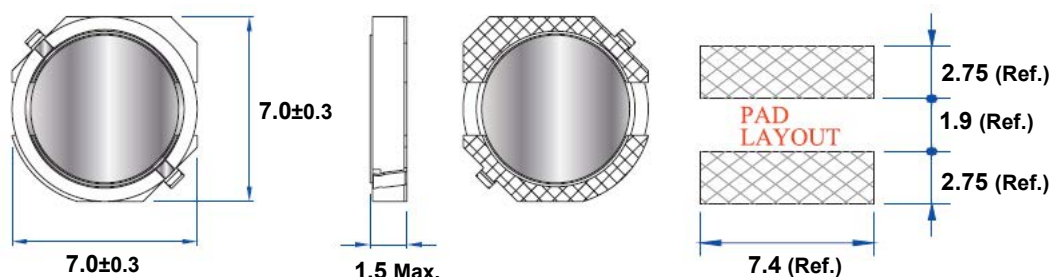
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG6D38T3R3□-□□	3.3	Y	100	20	3.50
CSG6D38T5R0□-□□	5.0	M , N	100	24	2.90
CSG6D38T6R2□-□□	6.2	M , N	100	27	2.50
CSG6D38T7R4□-□□	7.4	M , N	100	31	2.30
CSG6D38T8R7□-□□	8.7	M , N	100	34	2.20
CSG6D38T100□-□□	10	M , N	100	38	2.00
CSG6D38T120□-□□	12	M , N	100	53	1.70
CSG6D38T150□-□□	15	M , N	100	57	1.60
CSG6D38T180□-□□	18	M , N	100	92	1.50
CSG6D38T220□-□□	22	M , N	100	96	1.30
CSG6D38T270□-□□	27	M , N	100	109	1.20
CSG6D38T330□-□□	33	M , N	100	124	1.10
CSG6D38T390□-□□	39	M , N	100	138	1.00
CSG6D38T470□-□□	47	M , N	100	155	0.95
CSG6D38T560□-□□	56	M , N	100	202	0.85
CSG6D28T680□-□□	68	M , N	100	234	0.75
CSG6D28T820□-□□	82	M , N	100	324	0.70
CSG6D28T101□-□□	100	M , N	100	358	0.65

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG7D15A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

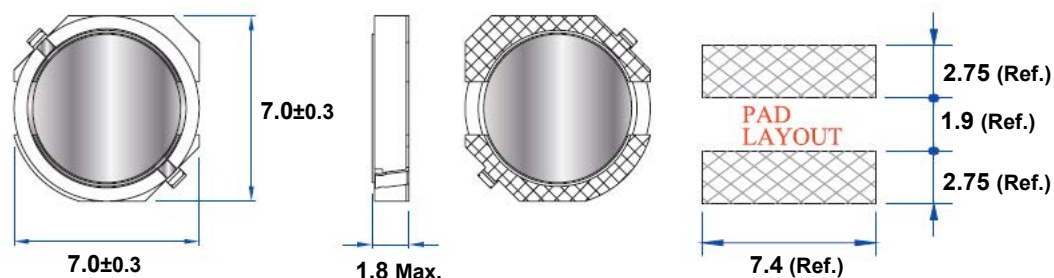
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG7D15A3R3□-□□	3.3	Y	100	65	2.80
CSG7D15A4R7□-□□	4.7	Y	100	70	2.50
CSG7D15A6R8□-□□	6.8	M , N	100	106	2.10
CSG7D15A100□-□□	10	M , N	100	150	1.40
CSG7D15A150□-□□	15	M , N	100	195	1.10
CSG7D15A220□-□□	22	M , N	100	300	0.90

- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125℃
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20℃)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG7D18A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

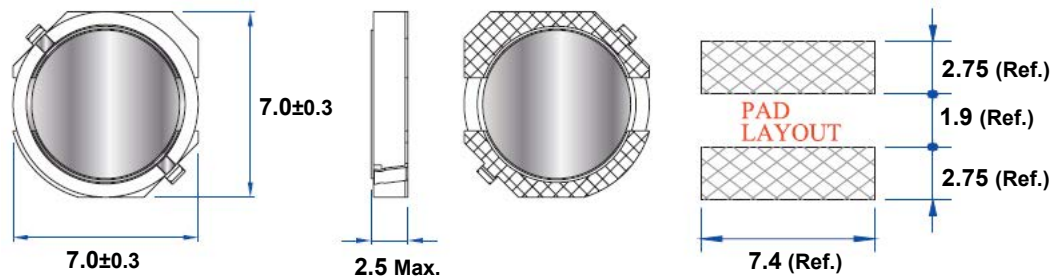
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG7D18A2R2□-□□	2.2	Y	100	60	3.80
CSG7D18A3R3□-□□	3.3	Y	100	67	3.20
CSG7D18A4R7□-□□	4.7	Y	100	96	2.80
CSG7D18A5R6□-□□	5.6	M , N	100	102	2.60
CSG7D18A6R8□-□□	6.8	M , N	100	142	2.20
CSG7D18A8R0□-□□	8.0	M , N	100	146	2.00
CSG7D18A100□-□□	10	M , N	100	148	1.70
CSG7D18A120□-□□	12	M , N	100	221	1.60
CSG7D18A150□-□□	15	M , N	100	276	1.30
CSG7D18A180□-□□	18	M , N	100	350	1.40
CSG7D18A220□-□□	22	M , N	100	400	1.10

- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20°C)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG7D25A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

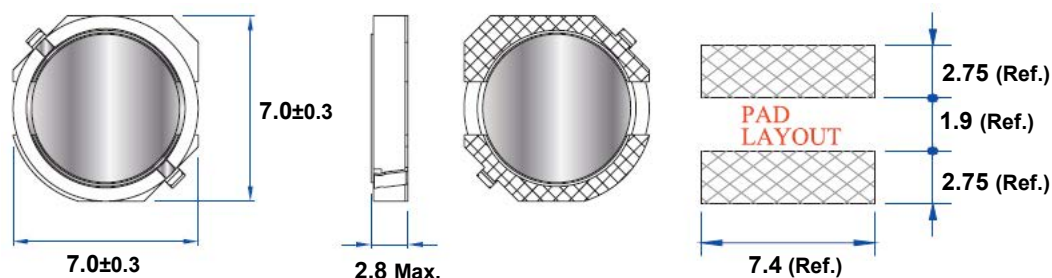
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG7D25A2R7□-□□	2.7	Y	100	47	4.00
CSG7D25A4R7□-□□	4.7	Y	100	70	3.20
CSG7D25A6R8□-□□	6.8	M , N	100	77	2.80
CSG7D25A8R2□-□□	8.2	M , N	100	92	2.60
CSG7D25A100□-□□	10	M , N	100	120	2.40
CSG7D25A120□-□□	12	M , N	100	130	2.00
CSG7D25A150□-□□	15	M , N	100	147	1.70
CSG7D25A180□-□□	18	M , N	100	193	1.60
CSG7D25A220□-□□	22	M , N	100	216	1.50

- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125°C
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20°C)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG7D28A

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

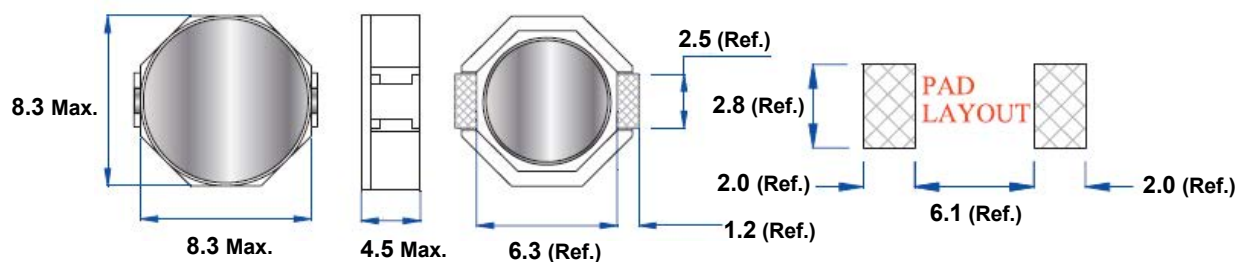
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG7D28A1R8□-□□	2.2	Y	100	27	4.50
CSG7D28A2R7□-□□	3.3	Y	100	33	4.00
CSG7D28A3R3□-□□	4.7	Y	100	36	3.50
CSG7D28A4R3□-□□	5.6	Y	100	48	3.20
CSG7D28A5R0□-□□	6.8	M , N	100	49	3.00
CSG7D28A6R2□-□□	8.0	M , N	100	56	2.80
CSG7D28A8R7□-□□	10	M , N	100	70	2.60
CSG7D28A100□-□□	12	M , N	100	77	2.40
CSG7D28A120□-□□	15	M , N	100	91	2.20
CSG7D28A150□-□□	18	M , N	100	104	1.90
CSG7D28A180□-□□	22	M , N	100	135	1.80

- Inductance Tolerance: M: $\pm 20\%$, N: $\pm 25\%$, Y: $\pm 30\%$
- Operating Temp : -40 to $+125^{\circ}\text{C}$
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20°C)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG8D43B

1. SHAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

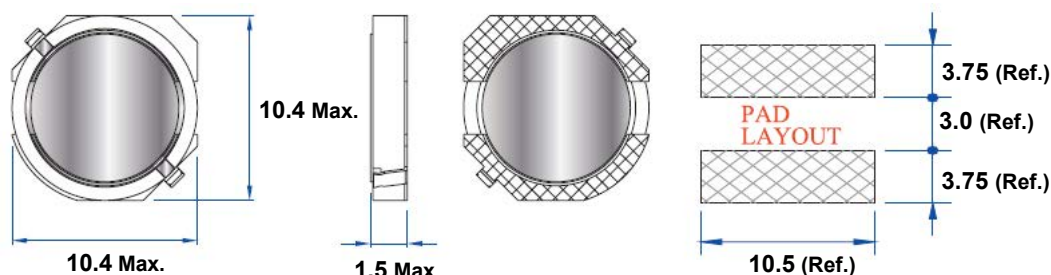
PART NO.	Inductance (uH)	Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	RDC Isat (A)
CSG8D43B3R3□-□□	3.3	Y	100	22	5.80
CSG8D43B4R7□-□□	4.7	Y	100	22	5.60
CSG8D43B6R8□-□□	6.8	M , N	100	38	4.20
CSG8D43B100□-□□	10	M , N	100	45	3.70
CSG8D43B150□-□□	15	M , N	100	53	2.90
CSG8D43B220□-□□	22	M , N	100	75	2.10

- Inductance Tolerance : M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125℃
- Rated current (RDC Isat) : For Inductance drop 35% from its value without current.
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG10D15A

1. HAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

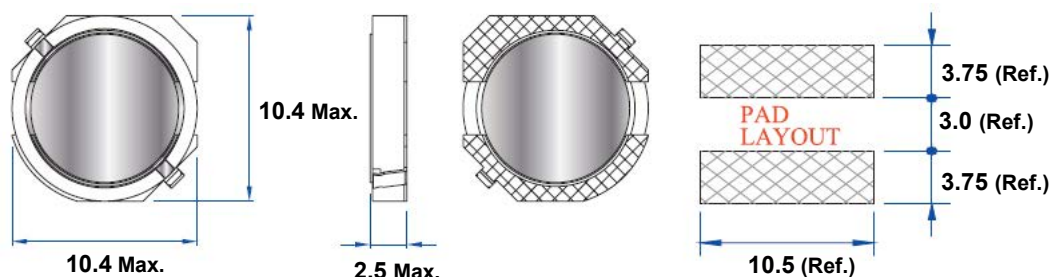
PART NO.	Inductance (uH)	Tolerance	DCR (mΩ) Max.	RDC Isat (A)	RDC Irms (A)
CSG10D15A3R3□-□□	3.3	Y	70	3.40	2.90
CSG10D15A4R7□-□□	4.7	Y	84	3.60(Ref.)	2.65
CSG10D15A6R8□-□□	6.8	M , N	115	2.60	2.25
CSG10D15A100□-□□	10	M , N	170	2.30	1.75
CSG10D15A120□-□□	12	M , N	185	2.10	1.70
CSG10D15A150□-□□	15	M , N	220	1.65	1.50
CSG10D15A180□-□□	18	M , N	230	1.55	1.35
CSG10D15A220□-□□	22	M , N	320	1.45	1.25
CSG10D15A270□-□□	27	M , N	340	1.40	1.15
CSG10D15A330□-□□	33	M , N	410	1.20	1.00
CSG10D15A390□-□□	39	M , N	530	0.95	0.90
CSG10D15A470□-□□	47	M , N	580	0.80	0.75

- Test Frequency: 100KHz
- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125℃
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20℃)
Irms: The value of current causes a 40℃ temperature rise.(at Ta: 20℃)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

CSG10D25A

1. HAPE & DIMENSION (UNIT:mm)



2. ELECTRICAL

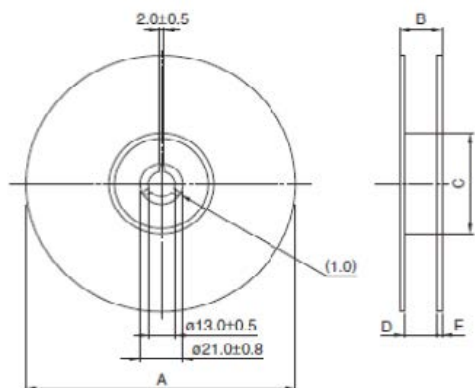
PART NO.	Inductance (uH)	Tolerance	DCR (mΩ) Max.	RDC Isat (A)	RDC Irms (A)
CSG10D25T3R3□-□□	3.3	Y	46	5.20	4.00
CSG10D25T4R7□-□□	4.7	Y	54	4.20	3.70
CSG10D25T6R8□-□□	6.8	M , N	56	3.80	3.50
CSG10D25T100□-□□	10	M , N	85	3.00	2.70
CSG10D25T120□-□□	12	M , N	116	2.80	2.25
CSG10D25T150□-□□	15	M , N	123	2.40	2.15
CSG10D25T180□-□□	18	M , N	143	2.35	2.00
CSG10D25T220□-□□	22	M , N	180	2.30	1.75
CSG10D25T270□-□□	27	M , N	204	2.00	1.60
CSG10D25T330□-□□	33	M , N	263	1.60	1.40
CSG10D25T390□-□□	39	M , N	292	1.50	1.30
CSG10D25T470□-□□	47	M , N	360	1.30	1.20
CSG10D25T560□-□□	56	M , N	452	1.20	1.05
CSG10D25T680□-□□	68	M , N	509	1.10	1.00

- Test Frequency: 100KHz
- Inductance Tolerance: M:±20%, N: ±25%, Y: ±30%
- Operating Temp : -40 to +125℃
- Rated current: smaller value of either Isat or Irms.
Isat: The value of current causes a 35% inductance reduction from initial value.(at Ta: 20℃)
Irms: The value of current causes a 40℃ temperature rise.(at Ta: 20℃)
- Inductance measurement: HP4194A
- DCR measurement: 502BC milli-ohm meter.
- RDC measurement: 4284A+42841A+42842C
- MSL : LEVEL 1

SMD POWER INDUCTORS

■ Packaging

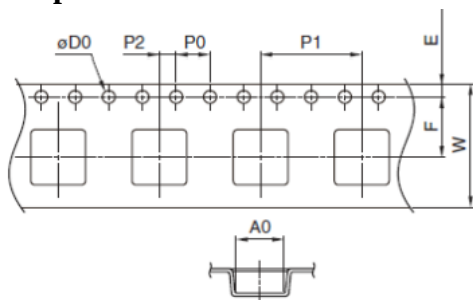
■ Reel Dimension



Type	A	B _{ref}	C _{ref}	D _{ref}	E _{ref}
CSG3016	ø180	16.4	ø50	12.4	2
CSG4D**	ø330	22.4	ø50	16.4	2
CSG5D**	ø330	22.4	ø50	16.4	2
CSG6D**	ø330	22.4	ø50	16.4	2
CSG7D**	ø330	22.4	ø50	16.4	2
CSG8D**	ø330	22.4	ø50	16.4	2
CSG10D**	ø330	30.4	ø50	24.4	2

Unit:mm

■ Tape Dimensions



Type	A ₀ max	B ₀ max	øD ₀	E	F	P ₀	P ₁	P ₂	W	K _{max}	t
CSG3D16	3.3	3.3	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	2.0	0.4
CSG4D18	4.4	4.4	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	2.2	0.4
CSG4D28	4.4	4.4	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	3.2	0.4
CSG5D12	5.35	5.35	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	1.5	0.4
CSG5D18	5.35	5.35	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	2.2	0.4
CSG5D28	5.35	5.35	1.5+0.1/-0	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.05	12.0±0.3	3.2	0.4
CSG6D12	6.4	6.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	1.7	0.4
CSG6D28	6.4	6.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	3.2	0.4
CSG6D38	6.4	6.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	4.2	0.4
CSG7D15	7.4	7.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	1.9	0.4
CSG7D18	7.4	7.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	2.2	0.4
CSG7D25	7.4	7.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	2.7	0.4
CSG7D28	7.4	7.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	3.2	0.4
CSG8D43	8.4	8.4	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	4.7	0.4
CSG10D15	13	13	1.5+0.1/-0	1.75±0.1	11.5±0.1	4.0±0.1	16.0±0.1	2.0±0.05	24.0±0.3	2.0	0.4
CSG10D25	13	13	1.5+0.1/-0	1.75±0.1	11.5±0.1	4.0±0.1	16.0±0.1	2.0±0.05	24.0±0.3	2.7	0.4

Unit:mm