

SBDR Series

Features

RoHS, Halogen Free and REACH Compliance
Shielded power inductor
With magnetic shield against radiation.
Directly connected electrode on ferrite core.
Highly accurate dimensions for automatic mounting.

Applications

Satellite communication systems.
TVs and audio equipment.
Microwave equipment.

Product Identification

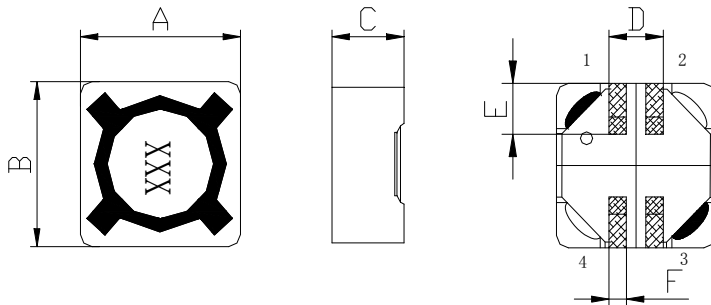
SBDR XXXX RTL - XXXMZ
For example: SBDR0704RTL-180MZ-720PZ

General Specifications

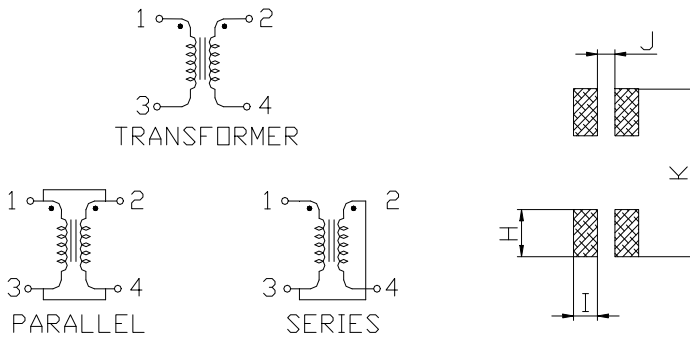
Test frequency.....100KHz
Test Voltage.....0.1V
Parameters Test Temp..... 25℃
Operation Temp.....-40℃ to +125℃
(Including temperature Rise)
Storage Temp.....0~-40℃
Storage Humidity.....<70% RH
Resistance to Soldering Heat.....260℃ for 10 sec
Rated Current.....Ind. drops of 35%typ at Isat
Temperature Rise.....40℃typ. at Irms



Shape And Dimensions



Electrical Schematic & PAD Layout



Standard Specifications

TYPE	A	B	C	D	E	F	H	I	J	K
	±0.3	±0.3	Max	Ref	Ref	Ref	Ref	Ref	Ref	Ref
0704	7.30	7.30	4.8	2.7	2.1	0.8	1.1	0.8	2.1	7.5
125	12.0	12.0	6.5	5.0	2.9	1.7	2.0	1.5	4.0	12.5
127	12.0	12.0	8.5	5.0	2.9	1.7	2.0	1.5	4.0	12.5

Standard Specifications

Stamp	leads connected in parallel				leads connected in series			
	L(uH) ±20%	DCR (mΩ) Max	Isat (A) Typ	Irms (A) Typ	L(uH) ±25%	DCR (mΩ) Max	Isat (A) Typ	Irms (A) Typ
SBDR0704RTL-2R5MZ-100PZ	2.5	19.8	5.67	3.89	10.0	79.2	2.83	1.95
SBDR0704RTL-3R3MZ-130PZ	3.3	24.2	4.86	3.68	13.2	96.8	2.43	1.84
SBDR0704RTL-4R7MZ-180PZ	4.7	28.6	4.14	3.13	18.8	112	2.07	1.56
SBDR0704RTL-5R6MZ-220PZ	5.6	35.2	3.78	2.82	22.4	138	1.89	1.41
SBDR0704RTL-6R8MZ-270PZ	6.8	38.5	3.51	2.67	27.2	154	1.75	1.34
SBDR0704RTL-8R2MZ-320PZ	8.2	47.3	3.15	2.58	32.8	189	1.57	1.29
SBDR0704RTL-100MZ-400PZ	10	55.0	2.70	2.24	40.0	220	1.35	1.11
SBDR0704RTL-120MZ-480PZ	12	66.0	2.43	2.05	48.0	264	1.21	1.02
SBDR0704RTL-150MZ-600PZ	15	77.0	2.16	1.96	60.0	308	1.08	0.98
SBDR0704RTL-180MZ-720PZ	18	93.5	2.07	1.71	72.0	374	1.03	0.85
SBDR0704RTL-220MZ-880PZ	22	121	1.89	1.51	88.0	484	0.94	0.75
SBDR0704RTL-270MZ-101PZ	27	137	1.71	1.41	108	550	0.85	0.71
SBDR0704RTL-330MZ-131PZ	33	165	1.53	1.35	132	660	0.76	0.68
SBDR0704RTL-390MZ-151PZ	39	209	1.35	1.14	156	836	0.67	0.57
SBDR0704RTL-470MZ-181PZ	47	231	1.26	1.09	188	924	0.63	0.54
SBDR0704RTL-560MZ-221PZ	56	297	1.17	1.04	224	1188	0.58	0.52
SBDR0704RTL-680MZ-271PZ	68	352	1.08	0.91	272	1408	0.54	0.45
SBDR0704RTL-820MZ-321PZ	82	396	0.99	0.85	328	1584	0.49	0.43
SBDR0704RTL-101MZ-401PZ	100	495	0.88	0.80	400	1980	0.44	0.40
SBDR0704RTL-121MZ-481PZ	120	616	0.81	0.70	480	2464	0.40	0.35
SBDR0704RTL-151MZ-601PZ	150	742	0.72	0.61	600	2970	0.36	0.30
SBDR0704RTL-181MZ-721PZ	180	913	0.65	0.57	720	3652	0.32	0.28
SBDR0704RTL-221MZ-881PZ	220	1210	0.59	0.53	880	4840	0.29	0.27
SBDR0704RTL-271MZ-102PZ	270	1430	0.54	0.45	1080	5720	0.27	0.22
SBDR0704RTL-331MZ-132PZ	330	1760	0.48	0.43	1320	7040	0.24	0.21
SBDR0704RTL-391MZ-152PZ	390	2310	0.45	0.40	1560	9240	0.22	0.20
SBDR0704RTL-471MZ-182PZ	470	2585	0.41	0.36	1880	10340	0.20	0.18
SBDR0704RTL-561MZ-222PZ	560	2915	0.37	0.33	2240	11660	0.18	0.17
SBDR0704RTL-681MZ-272PZ	680	3850	0.34	0.31	2720	15400	0.17	0.16
SBDR0704RTL-821MZ-322PZ	820	4290	0.31	0.27	3280	17160	0.15	0.13
SBDR0704RTL-102MZ-402PZ	1000	5940	0.27	0.25	4000	23760	0.13	0.12

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Standard Specifications

Stamp	leads connected in parallel				leads connected in series			
	L(μH) ±20%	DCR (mΩ) Max	Isat (A) Typ	Irms (A) Typ	L(μH) ±25%	DCR (mΩ) Max	Isat (A) Typ	Irms (A) Typ
SBDR125RTL-4R7MZ-180PZ	4.7	19.8	9.27	6.48	18.8	79.2	4.63	3.06
SBDR125RTL-5R6MZ-220PZ	5.6	22.0	8.69	6.30	22.4	88.0	4.34	2.97
SBDR125RTL-6R8MZ-270PZ	6.8	26.4	8.28	5.94	27.2	104	4.14	2.88
SBDR125RTL-8R2MZ-320PZ	8.2	28.6	7.69	5.76	32.8	114	3.85	2.79
SBDR125RTL-100MZ-400PZ	10	33.0	6.66	4.86	40.0	132	3.33	2.52
SBDR125RTL-120MZ-480PZ	12	40.7	6.17	4.68	48.0	161	3.08	2.43
SBDR125RTL-150MZ-600PZ	15	46.2	5.48	4.14	60.0	187	2.74	2.25
SBDR125RTL-180MZ-720PZ	18	52.8	4.77	3.96	72.0	213	2.38	1.98
SBDR125RTL-220MZ-880PZ	22	63.8	4.50	3.78	88.0	255	2.25	1.89
SBDR125RTL-270MZ-101PZ	27	68.2	4.19	3.33	108	272	2.09	1.71
SBDR125RTL-330MZ-131PZ	33	73.7	3.79	3.24	132	294	1.89	1.44
SBDR125RTL-390MZ-151PZ	39	78.1	3.42	2.88	156	312	1.71	1.35
SBDR125RTL-470MZ-181PZ	47	95.7	2.92	2.61	188	382	1.46	1.26
SBDR125RTL-560MZ-221PZ	56	108	2.76	2.43	224	435	1.38	1.17
SBDR125RTL-680MZ-271PZ	68	118	2.54	2.25	272	475	1.27	1.08
SBDR125RTL-820MZ-321PZ	82	150	2.29	2.07	328	602	1.15	0.99
SBDR125RTL-101MZ-401PZ	100	177	1.98	1.71	400	706	0.99	0.90
SBDR125RTL-121MZ-481PZ	120	229	1.84	1.62	480	917	0.92	0.72
SBDR125RTL-151MZ-601PZ	150	261	1.63	1.53	600	1047	0.81	0.70
SBDR125RTL-181MZ-721PZ	180	294	1.44	1.44	720	1179	0.72	0.67
SBDR125RTL-221MZ-881PZ	220	380	1.35	1.35	880	1520	0.68	0.63
SBDR125RTL-271MZ-102PZ	270	443	1.26	1.26	1080	1771	0.63	0.58
SBDR125RTL-331MZ-132PZ	330	600	1.15	1.08	1320	2398	0.57	0.50
SBDR125RTL-391MZ-152PZ	390	660	1.04	0.90	1560	2640	0.52	0.45
SBDR125RTL-471MZ-182PZ	470	874	0.90	0.77	1880	3498	0.45	0.36
SBDR125RTL-561MZ-222PZ	560	995	0.85	0.72	2240	3982	0.43	0.34
SBDR125RTL-681MZ-272PZ	680	1133	0.79	0.66	2720	4532	0.39	0.31
SBDR125RTL-821MZ-322PZ	820	1457	0.71	0.60	3280	5830	0.36	0.28
SBDR125RTL-102MZ-402PZ	1000	1683	0.62	0.45	4000	6732	0.31	0.26

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Standard Specifications

Stamp	leads connected in parallel				leads connected in series			
	L(μ H) $\pm 20\%$	DCR (m Ω) Max	Isat (A) Typ	Irms (A) Typ	L(μ H) $\pm 25\%$	DCR (m Ω) Max	Isat (A) Typ	Irms (A) Typ
SBDR127RTL-4R7MZ-180PZ	4.7	20.9	13.4	6.66	18.8	83.6	6.93	3.24
SBDR127RTL-5R6MZ-220PZ	5.6	25.3	12.0	6.48	22.4	101	5.94	3.15
SBDR127RTL-6R8MZ-270PZ	6.8	26.4	11.7	6.21	27.2	105	5.76	3.06
SBDR127RTL-8R2MZ-320PZ	8.2	27.5	9.72	5.94	32.8	110	5.04	2.97
SBDR127RTL-100MZ-400PZ	10	31.9	9.45	5.58	40.0	127	4.86	2.88
SBDR127RTL-120MZ-480PZ	12	34.1	8.64	5.40	48.0	136	4.32	2.61
SBDR127RTL-150MZ-600PZ	15	39.6	8.19	5.22	60.0	158	3.87	2.43
SBDR127RTL-180MZ-720PZ	18	44.0	7.20	4.95	72.0	173	3.51	2.25
SBDR127RTL-220MZ-880PZ	22	52.8	6.12	4.68	88.0	209	3.15	1.98
SBDR127RTL-270MZ-101PZ	27	66.0	5.85	4.23	108	264	3.06	1.80
SBDR127RTL-330MZ-131PZ	33	82.5	5.04	3.78	132	330	2.79	1.53
SBDR127RTL-390MZ-151PZ	39	88.0	4.95	3.24	156	352	2.52	1.44
SBDR127RTL-470MZ-181PZ	47	99.0	4.68	2.70	188	396	2.34	1.35
SBDR127RTL-560MZ-221PZ	56	104	4.05	2.52	224	418	2.16	1.26
SBDR127RTL-680MZ-271PZ	68	115	3.69	2.34	272	462	1.89	1.17
SBDR127RTL-820MZ-321PZ	82	154	3.42	2.07	328	616	1.71	1.08
SBDR127RTL-101MZ-401PZ	100	165	3.06	1.80	400	660	1.53	0.99
SBDR127RTL-121MZ-481PZ	120	225	2.88	1.71	480	902	1.44	0.90
SBDR127RTL-151MZ-601PZ	150	253	2.52	1.62	600	1012	1.26	0.80
SBDR127RTL-181MZ-721PZ	180	280	2.25	1.53	720	1122	1.17	0.75
SBDR127RTL-221MZ-881PZ	220	379	2.07	1.44	880	1518	0.99	0.67
SBDR127RTL-271MZ-102PZ	270	495	1.89	1.35	1080	1980	0.90	0.63
SBDR127RTL-331MZ-132PZ	330	561	1.71	1.17	1320	2244	0.82	0.55
SBDR127RTL-391MZ-152PZ	390	616	1.53	0.99	1560	2464	0.75	0.47
SBDR127RTL-471MZ-182PZ	470	841	1.44	0.78	1880	3366	0.72	0.38
SBDR127RTL-561MZ-222PZ	560	929	1.35	0.74	2240	3718	0.65	0.36
SBDR127RTL-681MZ-272PZ	680	1259	1.17	0.68	2720	5038	0.56	0.32
SBDR127RTL-821MZ-332PZ	820	1402	1.08	0.62	3280	5610	0.52	0.29
SBDR127RTL-102MZ-402PZ	1000	1556	0.99	0.54	4000	6226	0.50	0.27

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