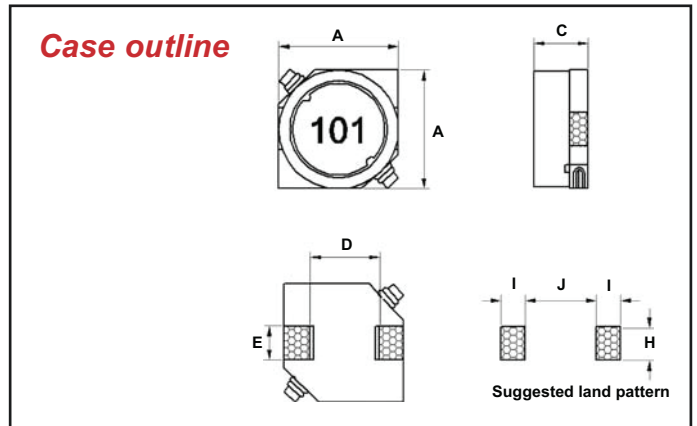


Type SMTDRS (1 ~ 1500) μ H

- # Compact, low profile
- # Magnetically shielded
- # High current
- # Low dc resistance
- # dc ~ dc converters / portable comm's
- # RoHS compliant



Case dimensions(mm)

	A	C	D	E	H	I	J
SMT DRS 0628	6.0	2.8	3.0	2.0	2.2	2.0	3.0
SMT DRS 0728	7.0	2.8	4.0	2.0	2.2	2.0	4.0
SMT DRS 0730	7.0	3.0	4.0	2.0	2.2	2.0	4.0
SMT DRS 0732	7.0	3.2	4.0	2.0	2.2	2.0	4.0
SMT DRS 0745	7.0	4.5	4.0	2.0	2.2	2.0	4.0
SMT DRS 1045	10.1	4.5	6.0	3.0	3.2	2.5	5.6
SMT DRS 1255	12.5	5.5	8.6	3.0	3.2	2.5	8.6
SMT DRS 1265	12.5	6.5	8.6	3.0	3.2	2.5	8.6
SMT DRS 1275	12.5	7.5	8.6	3.0	3.2	2.5	8.6

Electrical specification

Case style	DR core with shield
Inductance range	(1 ~ 1500) μ H
Current rating	Based on self heating temperature rise by +20°C max.
Ambient operating temperature	(-20 ~ +85)°C
Test equipment	inductance: HP4284, LCR meter at 1kHz, dc resistance: milli-ohm meter

Ordering information

TFC PART NUMBER SMT DRS 0628 - 100 M

'SMT' type: SMT = shielded surface mount power inductor
 'DRS 0628' core size: DRS 0628 = height 2.8mm, diameter 6.0mm
 '100' inductance value code: 100 = 10 μ H, inductance range (1 ~ 1500) μ H
 'M' tolerance: M = 20%, N = 30%

Core size	Inductance range	Saturation current
DRS0628	(4.7 ~ 100) μ H	(1.6 ~ 0.42)A
DRS0728	(3.3 ~ 47) μ H	(1.6 ~ 0.54)A
DRS0730	(3.3 ~ 100) μ H	(1.8 ~ 0.35)A
DRS0732	(3.3 ~ 1000) μ H	(1.9 ~ 0.13)A
DRS0745	(3.3 ~ 1000) μ H	(2.3 ~ 0.14)A
DRS1045	(10 ~ 1500) μ H	(2.5 ~ 0.22)A
DRS1255	(6.0 ~ 1500) μ H	(3.6 ~ 0.29)A
DRS1265	(2.0 ~ 220) μ H	(6.2 ~ 1.00)A
DRS1275	(1.2 ~ 220) μ H	(8.2 ~ 1.30)A

Type SMTDRS

PART NUMBER	Inductance (μ H)	d.c. resistance (Ω) \pm 20%	Rated d.c. current (A) Max.	
			I sat	I rms
SMTDRS0628 - 4R7M	4.7	0.036	1.60	2.50
SMTDRS0628 - 6R8M	6.8	0.052	1.50	2.20
SMTDRS0628 - 100M	10.0	0.068	1.30	1.80
SMTDRS0628 - 150M	15.0	0.100	1.00	1.40
SMTDRS0628 - 220M	22.0	0.120	0.77	1.30
SMTDRS0628 - 330M	33.0	0.180	0.69	1.10
SMTDRS0628 - 470M	47.0	0.270	0.59	0.92
SMTDRS0628 - 680M	68.0	0.390	0.50	0.78
SMTDRS0628 - 101M	100.0	0.620	0.42	0.64
SMTDRS0728 - 3R3M	3.3	0.037	1.60	1.60
SMTDRS0728 - 4R7M	4.7	0.045	1.50	1.50
SMTDRS0728 - 6R8M	6.8	0.059	1.30	1.30
SMTDRS0728 - 100M	10	0.083	1.10	1.10
SMTDRS0728 - 150M	15	0.130	0.88	0.88
SMTDRS0728 - 220M	22	0.180	0.75	0.75
SMTDRS0728 - 330M	33	0.240	0.65	0.65
SMTDRS0728 - 470M	47	0.340	0.54	0.54
SMTDRS0730 - 3R3M	3.3	0.023	1.80	1.80
SMTDRS0730 - 4R7M	4.7	0.036	1.60	1.60
SMTDRS0730 - 6R8M	6.8	0.041	1.50	1.50
SMTDRS0730 - 100M	10	0.053	1.30	1.30
SMTDRS0730 - 150M	15	0.084	1.00	1.00
SMTDRS0730 - 220M	22	0.110	0.86	0.86
SMTDRS0730 - 330M	33	0.160	0.65	0.65
SMTDRS0730 - 470M	47	0.240	0.57	0.57
SMTDRS0730 - 680M	68	0.310	0.49	0.49
SMTDRS0730 - 101M	100	0.450	0.35	0.35

Type SMTDRS

PART NUMBER	Inductance (μ H)	d.c. resistance (Ω) \pm 20%	Rated d.c. current (A) Max.	
			I sat	I rms
SMTDRS0732 - 3R3M	3.3	0.023	1.90	1.90
SMTDRS0732 - 4R7M	4.7	0.036	1.70	1.70
SMTDRS0732 - 6R8M	6.8	0.041	1.60	1.60
SMTDRS0732 - 100M	10	0.053	1.40	1.40
SMTDRS0732 - 150M	15	0.075	1.10	1.10
SMTDRS0732 - 220M	22	0.110	0.96	0.96
SMTDRS0732 - 330M	33	0.160	0.75	0.75
SMTDRS0732 - 470M	47	0.240	0.67	0.67
SMTDRS0732 - 680M	68	0.310	0.59	0.59
SMTDRS0732 - 101M	100	0.450	0.45	0.45
SMTDRS0732 - 151M	150	0.650	0.37	0.37
SMTDRS0732 - 221M	220	1.050	0.29	0.29
SMTDRS0732 - 331M	330	1.670	0.22	0.22
SMTDRS0732 - 471M	470	2.050	0.20	0.20
SMTDRS0732 - 681M	680	3.150	0.16	0.16
SMTDRS0732 - 102M	1000	4.780	0.13	0.13
SMTDRS0745 - 3R3M	3.3	0.020	2.50	2.30
SMTDRS0745 - 4R7M	4.7	0.030	2.00	2.10
SMTDRS0745 - 6R8M	6.8	0.039	1.70	1.74
SMTDRS0745 - 100M	10	0.036	1.30	1.78
SMTDRS0745 - 150M	15	0.052	1.10	1.53
SMTDRS0745 - 220M	22	0.061	0.90	1.34
SMTDRS0745 - 330M	33	0.096	0.82	1.09
SMTDRS0745 - 470M	47	0.125	0.75	0.92
SMTDRS0745 - 680M	68	0.175	0.60	0.77
SMTDRS0745 - 101M	100	0.250	0.50	0.65
SMTDRS0745 - 151M	150	0.340	0.40	0.55
SMTDRS0745 - 221M	220	0.520	0.33	0.45
SMTDRS0745 - 331M	330	0.740	0.25	0.37
SMTDRS0745 - 471M	470	1.050	0.22	0.31
SMTDRS0745 - 681M	680	1.480	0.20	0.27
SMTDRS0745 - 102M	1000	2.280	0.14	0.25

Type SMTDRS

PART NUMBER	Inductance (μ H)	d.c. resistance (Ω) \pm 20%	Rated d.c. current (A) Max.	
			I sat	I rms
SMTDRS1045 - 100M	10	0.036	3.00	2.50
SMTDRS1045 - 150M	15	0.047	2.40	2.20
SMTDRS1045 - 220M	22	0.059	2.10	1.90
SMTDRS1045 - 330M	33	0.082	1.60	1.70
SMTDRS1045 - 470M	47	0.100	1.40	1.50
SMTDRS1045 - 680M	68	0.140	1.20	1.30
SMTDRS1045 - 101M	100	0.200	1.00	1.10
SMTDRS1045 - 151M	150	0.350	0.79	0.81
SMTDRS1045 - 221M	220	0.470	0.65	0.70
SMTDRS1045 - 331M	330	0.680	0.54	0.58
SMTDRS1045 - 471M	470	1.030	0.47	0.47
SMTDRS1045 - 681M	680	1.600	0.38	0.38
SMTDRS1045 - 102M	1000	2.800	0.32	0.29
SMTDRS1045 - 152M	1500	3.400	0.22	0.26
SMTDRS1255 - 6R0N	6.0	16.40	3.60	4.90
SMTDRS1255 - 100M	10	21.50	3.40	4.30
SMTDRS1255 - 150M	15	25.90	2.80	3.90
SMTDRS1255 - 220M	22	33.80	2.30	3.40
SMTDRS1255 - 330M	33	41.50	1.90	3.10
SMTDRS1255 - 470M	47	61.80	1.60	2.50
SMTDRS1255 - 680M	68	83.20	1.30	2.20
SMTDRS1255 - 101M	100	117.00	1.10	1.80
SMTDRS1255 - 151M	150	190.00	0.88	1.40
SMTDRS1255 - 221M	220	270.00	0.72	1.20
SMTDRS1255 - 331M	330	410.00	0.59	1.00
SMTDRS1255 - 471M	470	520.00	0.49	0.88
SMTDRS1255 - 681M	680	760.00	0.43	0.73
SMTDRS1255 - 102M	1000	1120.00	0.34	0.60
SMTDRS1255 - 152M	1500	1730.00	0.29	0.48

Type SMTDRS

PART NUMBER	Inductance (μ H)	d.c. resistance (Ω) \pm 20%	Rated d.c. current (A) Max.	
			I sat	I rms
SMTDRS1265 - 2R0N	2.0	11.70	10.00	6.20
SMTDRS1265 - 4R2N	4.2	15.00	7.30	5.50
SMTDRS1265 - 7R0M	7.0	17.70	5.70	5.00
SMTDRS1265 - 100M	10	20.20	5.00	4.80
SMTDRS1265 - 150M	15	23.70	4.20	4.40
SMTDRS1265 - 220M	22	31.60	3.50	3.80
SMTDRS1265 - 330M	33	40.60	2.80	3.40
SMTDRS1265 - 470M	47	57.80	2.40	2.80
SMTDRS1265 - 680M	68	78.70	2.00	2.40
SMTDRS1265 - 101M	100	123.00	1.60	1.90
SMTDRS1265 - 151M	150	273.00	1.00	1.20
SMTDRS1275 - 1R2N	1.2	6.90	13.00	8.20
SMTDRS1275 - 2R7N	2.7	9.40	10.00	7.00
SMTDRS1275 - 3R9N	3.9	10.40	9.00	6.70
SMTDRS1275 - 5R6N	5.6	11.60	7.80	6.30
SMTDRS1275 - 6R8N	6.8	13.10	7.20	5.90
SMTDRS1275 - 100M	10	15.60	5.50	5.40
SMTDRS1275 - 150M	15	18.40	4.70	5.00
SMTDRS1275 - 220M	22	26.30	4.00	4.00
SMTDRS1275 - 330M	33	39.50	3.20	3.40
SMTDRS1275 - 470M	47	52.80	2.70	3.00
SMTDRS1275 - 680M	68	77.80	2.00	2.40
SMTDRS1275 - 101M	100	125.00	1.90	1.90
SMTDRS1275 - 151M	150	175.00	1.50	1.60
SMTDRS1275 - 221M	220	258.00	1.30	1.30