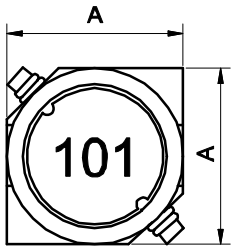
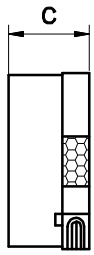
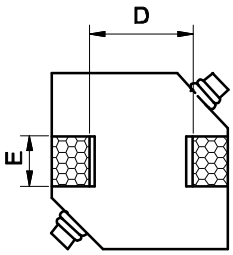
SHIELDED SMT POWER INDUCTORS

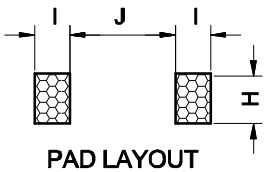
SMTDRS 0628/0728/0730/0732/0745/1045/1255/1265/1275 TYPE

Shape and Size : (Dimensions are in mm)









PAD LAYOUT

ITEM	A	C	D	E	H	I	J
DRS0628	6.0±0.2	2.8±0.2	3.0	2.0	2.2	2.0	3.0
DRS0728	7.0±0.2	2.8± 0.2	4.0	2.0	2.2	2.0	4.0
DRS0730	7.0±0.2	3.0±0.2	4.0	2.0	2.2	2.0	4.0
DRS0732	7.0±0.2	3.2±0.2	4.0	2.0	2.2	2.0	4.0
DRS0745	7.0±0.2	4.5±0.3	4.0	2.0	2.2	2.0	4.0
DRS1045	10.1±0.3	4.5±0.3	6.0	3.0	3.2	2.5	5.6
DRS1255	12.5±0.3	5.5±0.35	8.6	3.0	3.2	2.5	8.6
DRS1265	12.5±0.3	6.5±0.35	8.6	3.0	3.2	2.5	8.6
DRS1275	12.5±0.3	7.5±0.35	8.6	3.0	3.2	2.5	8.6

Features :

- Compact, low profile with low Rdc and large current.
- With magnetic shield against radiation.
- Flat bottom surface allows for reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Ordering Information :

SMT DRS0732 - 101 M

(1) (2) (3) (4)

(1)Type : **S**urface **M**ountable **T**ype.

(2)Style : **DR** Core with Shield.

(3)Inductance : **101** for **100** uH.

(4)Inductance tolerance :"**M**": ±20% "**N**":±30%.

Inductance and rated current ranges :

- SMTDRS0628 4.7~100uH 1.6~0.42A
- SMTDRS0728 3.3~47 uH 1.6~0.54A
- SMTDRS0730 3.3~100 uH 1.8~0.35A
- SMTDRS0732 3.3~1000uH 1.9~0.13A
- SMTDRS0745 3.3~1000uH 2.3~0.14A
- SMTDRS1045 10 ~1500uH 2.5~0.22A
- SMTDRS1255 6.0~1500uH 3.6~0.29A
- SMTDRS1265 2.0~220 uH 6.2~1.0A
- SMTDRS1275 1.2~220 uH 8.2~1.3A
- Test equipment :

  L : Agilent 4284A LCR meter @1kHz 0.5V.

  DCR : Milli-ohm meter.
- Electrical specifications at 25℃.

Characteristics :

- I sat: The current when the inductance becomes 10% (0628 is 30) lower than its initial value. (Ta=20℃)
- I rms: The current when temperature of coil increases up to Max. △T=40℃. (Ta=20℃)
- Operating temperature : -20 to 85 ℃.

Applications :

- Portable telephones.
- Personable computers.
- DC/DC converters, etc.
- Other various electronic appliances.

SHIELDED SMT POWER INDUCTORS

SMTDRS 0628/0728/0730/0732/0745/1045 TYPE

Part No.	L	DC Resistance (OHM) ±20%			Rated DC Current (A) Max.					
					I sat			I rms		
	(μH)	0628	0728	0730	0628	0728	0730	0628	0728	0730
3R3M	3.3		0.037	0.023		1.60	1.80		1.60	1.80
4R7M	4.7	0.036	0.045	0.036	1.60	1.50	1.60	2.50	1.50	1.60
6R8M	6.8	0.052	0.059	0.041	1.50	1.30	1.50	2.20	1.30	1.50
100M	**10**	**0.068**	**0.083**	**0.053**	**1.30**	**1.10**	**1.30**	**1.80**	**1.10**	**1.30**
150M	15	0.100	0.130	0.084	1.00	0.88	1.00	1.40	0.88	1.00
220M	22	0.120	0.180	0.110	0.77	0.75	0.86	1.30	0.75	0.86
330M	33	0.180	0.240	0.160	0.69	0.65	0.65	1.10	0.65	0.65
470M	47	0.270	0.340	0.240	0.59	0.54	0.57	0.92	0.54	0.57
680M	68	0.390		0.310	0.50		0.49	0.78		0.49
101M	**100**	**0.620**		**0.450**	**0.42**		**0.35**	**0.64**		**0.35**

Part No.	L	0732	0745	1045	0732	0745	1045	0732	0745	1045
3R3M	3.3	0.023	0.020		1.90	2.50		1.90	2.30	
4R7M	4.7	0.036	0.030		1.70	2.00		1.70	2.10	
6R8M	6.8	0.041	0.039		1.60	1.70		1.60	1.74	
100M	**10**	**0.053**	**0.036**	**0.036**	**1.40**	**1.30**	**3.00**	**1.40**	**1.78**	**2.50**
150M	15	0.075	0.052	0.047	1.10	1.10	2.40	1.10	1.53	2.20
220M	22	0.110	0.061	0.059	0.96	0.90	2.10	0.96	1.34	1.90
330M	33	0.160	0.096	0.082	0.75	0.82	1.60	0.75	1.09	1.70
470M	47	0.240	0.125	0.100	0.67	0.75	1.40	0.67	0.92	1.50
680M	68	0.310	0.175	0.140	0.59	0.60	1.20	0.59	0.77	1.30
101M	**100**	**0.450**	**0.250**	**0.200**	**0.45**	**0.50**	**1.00**	**0.45**	**0.65**	**1.10**
151M	150	0.650	0.340	0.350	0.37	0.40	0.79	0.37	0.55	0.81
221M	220	1.050	0.520	0.470	0.29	0.33	0.65	0.29	0.45	0.70
331M	330	1.670	0.740	0.680	0.22	0.25	0.54	0.22	0.37	0.58
471M	470	2.050	1.050	1.030	0.20	0.22	0.47	0.20	0.31	0.47
681M	680	3.150	1.480	1.600	0.16	0.20	0.38	0.16	0.27	0.38
102M	**1000**	**4.780**	**2.280**	**2.800**	**0.13**	**0.14**	**0.32**	**0.13**	**0.25**	**0.29**
152M	1500			3.400			0.22			0.26

SHIELDED SMT POWER INDUCTORS

SMTDRS 1255/1265/1275 TYPE

Part No.	L	DC Resistance (mOHM) ±20%			Rated DC Current (Amp) Max.					
					I sat			I rms		
	(μH)	1255	1265	1275	1255	1265	1275	1255	1265	1275
1R2N	1.2			6.9			13.0			8.2
2R0N	2.0		11.7			10.0			6.2	
2R7N	2.7			9.4			10.0			7.0
3R9N	3.9			10.4			9.0			**6.7**
4R2N	4.2		15.0			7.3			5.5	
5R6N	5.6			11.6			7.8			6.3
6R0N	6.0	16.4			3.60			4.9		
6R8N	6.8			13.1			7.2			5.9
7R0M	7.0		17.7			5.7			5.0	
100M	**10**	**21.5**	**20.2**	**15.6**	**3.40**	**5.0**	**5.5**	**4.3**	**4.8**	**5.4**
150M	15	25.9	23.7	18.4	2.80	4.2	4.7	3.9	4.4	5.0
220M	22	33.8	31.6	26.3	2.30	3.5	4.0	3.4	3.8	4.0
330M	33	41.5	40.6	39.5	1.90	2.8	3.2	3.1	3.4	3.4
470M	47	61.8	57.8	52.8	1.60	2.4	2.7	2.5	2.8	3.0
680M	68	83.2	78.7	77.8	1.30	2.0	2.0	2.2	2.4	2.4
101M	**100**	**117.0**	**123.0**	**125.0**	**1.10**	**1.6**	**1.9**	**1.8**	**1.9**	**1.9**
151M	150	190.0	273.0	175.0	0.88	1.0	1.5	1.4	1.2	1.6
221M	220	270.0		258.0	0.72		1.3	1.2		1.3
331M	330	410.0			0.59			1.0		
471M	470	520.0			0.49			0.88		
681M	680	760.0			0.43			0.73		
102M	**1000**	**1120**			**0.34**			**0.6**		
152M	1500	1730			0.29			0.48		