美隆電子有限公司 Mayloon Electronic Co.,Ltd.



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Shielded SMD Power Inductor-PCDR



nductance and rated current ranges

•	PCDR0628	4.7~100µH	1.6~0.42A
•	PCDR0728	3.3∼47µH	1.6~0.54A
•	PCDR0730	3.3~100µH	1.8~0.35A
•	PCDR0732	3.3~1000µH	1.9~0.13A
•	PCDR0745	3.3~1000µH	2.3~0.14A
•	PCDR1045	$10\!\sim\!1500\mu H$	2.5~0.22A
•	PCDR1255	6.0~1500µH	3.6~0.29A
•	PCDR1265	2.0~150µH	6.2~1.00A

- PCDR1275 1.2~220µH 8.2~1.30A
- Test equipment:

L: HP4284A LCR meter @1kHz 0.5V

DCR: Milli-ohm meter.

Electrical specification at 25° C.

Product Identification

PCDR	0628	м	т	101
	0010		÷.	

(1)	(2	(3)	(4)	(5)

(1)Type: SMD Power Inductors

(2)Dimensions(mm): 0628=6.0×2.8, 0728=7.0×2.8, 0730=7.0×3.0

0732=7.0×3.2, 0745=7.0×4.5, 1045=10.1×4.5

1255=12.5×5.5, 1265=12.5×6.5, 1275=12.5×7.5

(3)Tolerance: M=20%, N=30%

(4) Packaging style: T (Tape and Reel)

(5) Inductance: 1R1=1.1µH, 470=47µH, 101 =100µH

Characteristics:

• Saturation Rated Current (I sat): 0728~1275 The current when the inductance becomes 90% (0628 becomes 70%) of its nominal

value. (Ta=25℃)

- Temperature Rated Current (I rms): The actual current when the temperature of coil becomes to △40°C. (Ta=25°C)
- Operating temperature range: -20~80°C.



• Portable telephones.

Applications

- Personal computers.
- DC/DC converters, etc.
- Other various electronic appliances.

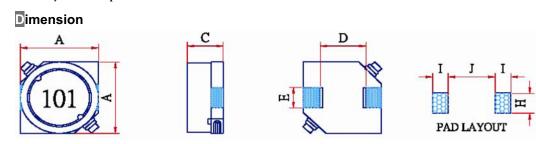
Features

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

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Unit: mm

Codes	Α	С	D	E	Н		J
PCDR0628	6.0±0.20	2.8±0.20	4.00	2.00	2.20	1.50	4.00
PCDR0728	7.0±0.20	2.8±0.20	4.00	2.00	2.20	1.50	4.00
PCDR0730	7.0±0.20	3.0±0.20	4.00	2.00	2.20	1.50	4.00
PCDR0732	7.0±0.20	3.2±0.20	4.00	2.00	2.20	1.50	4.00
PCDR0745	7.0±0.20	4.5±0.30	4.00	2.00	2.20	1.50	4.00
PCDR1045	10.1±0.30	4.5±0.30	6.00	3.00	3.20	2.50	5.60
PCDR1255	12.5±0.30	5.5±0.35	8.60	3.00	3.20	2.50	8.60
PCDR1265	12.5±0.30	6.5±0.35	8.60	3.00	3.20	2.50	8.60
PCDR1275	12.5±0.30	7.5±0.35	8.60	3.00	3.20	2.50	8.60

Electrical Characteristics

PCDR 0628 / 0728 / 0730 TYPE

Part		L	DC Resistance			Rated DC Current (A) Max						
No.			(Ω) ±20%				l sat			l rms		
			0628	0728	0730	0628	0728	0730	0628	0728	0730	
3R3	М	3.3	-	0.037	0.023	-	1.60	1.80	-	1.60	1.80	
4R7	М	4.7	0.036	0.045	0.036	1.60	1.50	1.60	2.50	1.50	1.60	
6R8	М	6.8	0.052	0.059	0.041	1.50	1.30	1.50	2.20	1.30	1.50	
100	М	10	0.068	0.083	0.053	1.30	1.10	1.30	1.80	1.10	1.30	
150	М	15	0.100	0.130	0.084	1.00	0.88	1.00	1.40	0.88	1.00	
220	М	22	0.120	0.180	0.110	0.77	0.75	0.86	1.30	0.75	0.86	
330	М	33	0.180	0.240	0.160	0.69	0.65	0.65	1.10	0.65	0.65	
470	М	47	0.270	0.340	0.240	0.59	0.54	0.57	0.92	0.54	0.57	
680	М	68	0.390	-	0.310	0.50	-	0.49	0.78	-	0.49	
101	М	100	0.620	-	0.450	0.42	-	0.35	0.64	-	0.35	

PCDR 0732 / 0745 / 1045 TYPE

Part		DC Resistance						Rated DC Current (A) Max					
No.	Tol.	∟ (µH)	(Ω) ±20%				l sat		l rms				
			0732	0745	1045	0732	0745	1045	0732	0745	1045		
3R3	М	3.3	0.023	0.020	-	1.90	2.50	-	1.90	2.30	-		
4R7	М	4.7	0.036	0.030	-	1.70	2.00	-	1.70	2.10	-		
6R8	М	6.8	0.041	0.039	-	1.60	1.70	-	1.60	1.74	-		
100	М	10	0.053	0.036	0.036	1.40	1.30	3.00	1.40	1.78	2.50		
150	М	15	0.075	0.052	0.047	1.10	1.10	2.40	1.10	1.53	2.20		
220	М	22	0.110	0.061	0.059	0.96	0.90	2.10	0.96	1.34	1.90		
330	М	33	0.160	0.096	0.082	0.75	0.82	1.60	0.75	1.09	1.70		
470	М	47	0.240	0.125	0.100	0.67	0.75	1.40	0.67	0.92	1.50		
680	М	68	0.310	0.175	0.140	0.59	0.60	1.20	0.59	0.77	1.30		
101	М	100	0.450	0.250	0.200	0.45	0.50	1.00	0.45	0.65	1.10		
151	М	150	0.650	0.340	0.350	0.37	0.40	0.79	0.37	0.55	0.81		
221	М	220	1.050	0.520	0.470	0.29	0.33	0.65	0.29	0.45	0.70		
331	М	330	1.670	0.740	0.680	0.22	0.25	0.54	0.22	0.37	0.58		
471	М	470	2.050	1.050	1.030	0.20	0.22	0.47	0.20	0.31	0.47		
681	М	680	3.150	1.480	1.600	0.16	0.20	0.38	0.16	0.27	0.38		
102	М	1000	4.780	2.280	2.800	0.13	0.14	0.32	0.13	0.25	0.29		
152	М	1500	-	-	3.400	-	-	0.22	-	-	0.26		

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Electrical Characteristics



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PCDR 1255 / 1265 / 1275 TYPE

Dort						Rate	Rated DC Current (A) Max					
Part No.	Tol.	с (µН)	(mΩ)±20%	6		l sat		l rms			
			1255	1265	1275	1255	1265	1275	1255	1265	1275	
1R2	N	1.2	-	-	6.9	-	-	13.00	-	-	8.20	
2R0	N	2.0	-	11.7	-	-	10.0	-	-	6.20	-	
2R7	N	2.7	-	-	9.4	-	-	10.00	-	-	7.00	
3R9	N	3.9	-	-	10.4	-	-	9.00	-	-	6.70	
4R2	Ν	4.2	-	15.0	-	-	7.30	-	-	5.50	-	
5R6	Ν	5.6	-	-	11.6	-	-	7.80	-	-	6.30	
6R0	N	6.0	16.4	-	-	3.60	-	-	4.90	-	-	
6R8	N	6.8	-	-	13.1	-	-	7.20	-	-	5.90	
7R0	М	7.0	-	17.7	-	-	5.70	-	-	5.00	-	
100	М	10	21.5	20.2	15.6	3.40	5.00	5.50	4.30	4.80	5.40	
150	М	15	25.9	23.7	18.4	2.80	4.20	4.70	3.90	4.40	5.00	
220	М	22	33.8	31.6	26.3	2.30	3.50	4.00	3.40	3.80	4.00	
330	М	33	41.5	40.6	39.5	1.90	2.80	3.20	3.10	3.40	3.40	
470	М	47	61.8	57.8	52.8	1.60	2.40	2.70	2.50	2.80	3.00	
680	М	68	83.2	78.7	77.8	1.30	2.00	2.00	2.20	2.40	2.40	
101	М	100	117.0	123.0	125.0	1.10	1.60	1.90	1.80	1.90	1.90	
151	М	150	190.0	273.0	175.0	0.88	1.00	1.50	1.40	1.20	1.60	
221	М	220	270.0	-	258.0	0.72	-	1.30	1.20	-	1.30	
331	М	330	410.0	-	-	0.59	-	-	1.00	-	-	
471	М	470	520.0	-	-	0.49	-	-	0.88	-	-	
681	М	680	760.0	-	-	0.43	-	-	0.73	-	-	
102	М	1000	1120	-	-	0.34	-	-	0.60	-	-	
152	М	1500	1730	-	-	0.29	-	-	0.48	-	-	