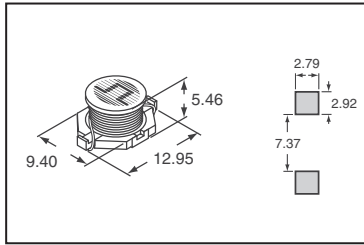




SMT Power Inductors Unshielded Drum Core P0751/2 Series

Specifications:

- Operating Temperature: -40°C ~ 130°C
- Footprint: 13.0mm X 9.4mm maximum
- Current Rating: Up to 6.8A
- Inductance Range: 1.0µH – 1000µH



Inductance ¹ @ IPK ADC (µH) ±20%	I _{rated} ⁴ (A)	DCR Max. (mΩ)	Saturation Current ² @ 25°C (A)	Heating ³ Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel [*]		Pulse Part No.
						1	10	50	Qty.	Pricing	
3.3	5.4	18	6.4	5.4	553-1058-1-ND	1.48	.87	.66	800	363.27	P0751.332NLT
4.7	4.8	33	5.4	4.8	553-1059-1-ND	1.48	.87	.66	800	363.27	P0751.472NLT
6.8	4.4	44	4.6	4.4	553-1060-1-ND	1.48	.87	.66	800	363.27	P0751.682NLT
10	3.8	50	3.8	3.9	553-1061-1-ND	1.48	.87	.66	800	363.27	P0751.103NLT
15	3.0	55	3.0	3.1	553-1062-1-ND	1.48	.87	.66	800	363.27	P0751.153NLT
22	2.6	114	2.6	2.7	553-1063-1-ND	1.48	.87	.66	800	363.27	P0751.223NLT
33	2.0	120	2.0	2.1	553-1064-1-ND	1.48	.87	.66	800	363.27	P0751.333NLT
47	1.6	168	1.6	1.8	553-1065-1-ND	1.48	.87	.66	800	363.27	P0751.473NLT
68	1.4	240	1.4	1.5	553-1066-1-ND	1.48	.87	.66	800	363.27	P0751.683NLT
100	1.2	380	1.2	1.3	553-1067-1-ND	1.55	.91	.69	800	380.48	P0752.104NLT
150	1.0	570	1.0	1.0	553-1068-1-ND	1.55	.91	.69	800	380.48	P0752.154NLT
220	0.8	840	0.8	0.8	553-1069-1-ND	1.55	.91	.69	800	380.48	P0752.224NLT
330	0.6	1020	0.6	0.6	553-1070-1-ND	1.55	.91	.69	800	380.48	P0752.334NLT
470	0.5	1460	0.5	0.5	553-1071-1-ND	1.55	.91	.69	800	380.48	P0752.474NLT
680	0.4	2170	0.4	0.4	553-1072-1-ND	1.55	.91	.69	800	380.48	P0752.684NLT
1000	0.3	3300	0.3	0.3	553-1073-1-ND	1.55	.91	.69	800	380.48	P0752.105NLT

Notes: The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
 1. Inductance tested at 100kHz, 10 mVrms.
 2. Inductance drop = 10% typical at the Saturation Current.
 3. ΔT = 15°C rise typical at the Heating Current.
 4. The rated current is the lower of the saturation or heating current.
 * For Tape and Reel part number, change 1-ND to 2-ND.

SMT Power Inductor Shielded Drum Core P1167 Series

Specifications:

- Operating Temperature: -40°C ~ 130°C
- Footprint: 7.5mm x 7.5mm maximum
- Current Rating: Up to 3.5A
- Inductance Range: 1.8µH – 750µH

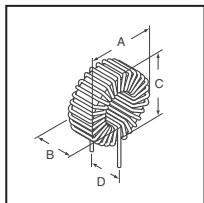


Inductance @ Rated Current (µH) Minimum	Rated Current IDC	DCR (mΩ) Typical	Maximum	Inductance @ 0 IDC (µH) ±20%	Saturation Current @ 25°C (A)	Heating Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 900	Pulse Part No.
								1	10	50			
1.8	3.5	13	16	2.7*	3.5	3.6	553-1074-1-ND	1.77	1.10	.90	553-1074-2-ND	579.68	P1167.272NLT
2.3	3.1	15	20	3.6*	3.1	3.4	553-1075-1-ND	1.77	1.10	.90	553-1075-2-ND	579.68	P1167.362NLT
3.5	2.5	27	33	5.4*	2.7	2.5	553-1077-1-ND	1.77	1.10	.90	553-1077-2-ND	579.68	P1167.542NLT
4.1	2.4	30	35	6.3*	2.5	2.4	553-1078-1-ND	1.77	1.10	.90	553-1078-2-ND	579.68	P1167.632NLT
7.5	2.0	42	50	10	2.1	2.0	553-1079-1-ND	1.77	1.10	.90	553-1079-2-ND	579.68	P1167.103NLT
9.0	1.9	46	57	12	1.9	1.9	553-1080-1-ND	1.77	1.10	.90	553-1080-2-ND	579.68	P1167.123NLT
11.3	1.7	53	66	15	1.7	1.8	553-1081-1-ND	1.77	1.10	.90	553-1081-2-ND	579.68	P1167.153NLT
13.5	1.5	59	73	18	1.5	1.7	553-1082-1-ND	1.61	1.00	.81	—	—	P1167.183NLT
16.5	1.4	87	105	22	1.4	1.4	553-1083-1-ND	1.77	1.10	.90	553-1083-2-ND	579.68	P1167.223NLT
20.3	1.2	100	130	27	1.2	1.3	553-1084-1-ND	1.77	1.10	.90	553-1084-2-ND	579.68	P1167.273NLT
24.8	1.1	139	170	33	1.1	1.1	553-1085-1-ND	1.77	1.10	.90	553-1085-2-ND	579.68	P1167.333NLT
35.3	0.94	173	220	47	0.94	1.0	553-1087-1-ND	1.77	1.10	.90	553-1087-2-ND	579.68	P1167.473NLT
42.0	0.86	225	270	56	0.86	0.86	553-1088-1-ND	1.77	1.10	.90	553-1088-2-ND	579.68	P1167.563NLT
51.0	0.78	251	310	68	0.78	0.81	553-1089-1-ND	1.77	1.10	.90	553-1089-2-ND	579.68	P1167.683NLT
61.5	0.70	282	350	82	0.70	0.77	553-1090-1-ND	1.77	1.10	.90	553-1090-2-ND	579.68	P1167.823NLT
75.0	0.63	317	390	100	0.63	.072	553-1091-1-ND	1.77	1.10	.90	553-1091-2-ND	579.68	P1167.104NLT
113	0.52	497	610	150	0.52	0.58	553-1093-1-ND	1.77	1.10	.90	553-1093-2-ND	579.68	P1167.154NLT
165	0.43	745	930	220	0.43	0.47	553-1095-1-ND	1.77	1.10	.90	553-1095-2-ND	579.68	P1167.224NLT
353	0.29	1688	2180	470	0.29	0.31	553-1099-1-ND	1.77	1.10	.90	553-1099-2-ND	579.68	P1167.474NLT

* Inductance at 0 IDC tolerance on indicated part numbers is ±30%; tolerance is ±20% on all other parts.

NEW! Toroid Power Inductors — Bare Coil Series

Specifications: • Current Range: Up to 48A • Frequency Range: Up to 1MHz • Operating Temperature: -40°C ~ 130°C • Electrical Specifications: Measured at 25°C



Inductance @ Rated Current (µH) Typical	Rated Current IDC	DCR Maximum (mΩ)	Inductance @ 0 ADC (µH) ±20%	Dimensions – Inches (mm)				Digi-Key Part No.	Price Each			Pulse Part No.
				A	B	C	D		1	10	50	
1.05	19.0	2.7	2.24	.604 (15.30)	.323 (8.20)	.556 (14.10)	.250 (6.40)	553-1507-ND	1.16	.68	.51	PA0489LNL
1.81	14.3	5.0	3.50	.610 (15.50)	.325 (8.30)	—	.300 (7.60)	553-1506-ND	.92	.54	.41	P1715LNL
3.22	20.5	5.5	7.80	.874 (22.20)	.374 (9.50)	—	.240 (6.10)	553-1503-ND	1.91	1.25	1.02	PA0431LNL
5.00	20.5	7.5	12.10	.980 (24.90)	.440 (11.20)	.980 (24.90)	.310 (7.90)	553-1504-ND	2.01	1.24	1.01	PA0432LNL

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