



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SMT POWER INDUCTORS

## Unshielded Drum Core - P0250 Series



- Height:** 7.1mm Max
- Footprint:** 18.5mm x 15.0mm Max
- Current Rating:** up to 8.6A
- Inductance Range:** 1μH to 1030μH

### Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part <sup>6,7</sup> Number	Inductance @ I <sub>PK</sub> A <sub>DC</sub> (μH ± 15%)	I <sub>rated</sub> <sup>5</sup> (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
P0250.102	1.0	8.6	9	20.0	8.60
P0250.222	2.2	7.1	14	16.0	7.10
P0250.332	3.3	6.2	15	14.0	6.20
P0250.562	5.6	5.3	20	12.0	5.30
P0250.103	10	4.3	31	10.0	4.30
P0250.153	15	4.0	36	8.0	4.00
P0250.223	22	3.5	47	7.0	3.50
P0250.333	33	3.0	66	5.5	3.00
P0250.473	47	2.6	86	4.5	2.60
P0250.683	68	2.3	130	3.5	2.30
P0250.104	100	1.8	190	3.0	1.80
P0250.154	150	1.5	250	2.6	1.50
P0250.224	220	1.2	380	2.4	1.20
P0250.334	330	1.0	560	1.9	1.00
P0250.474	470	.82	850	1.4	0.82
P0250.684	680	.72	1100	1.2	0.72
P0250.105	1000	.56	1800	1.0	0.56

- NOTES:**
- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
  - Inductance tested at 100kHz, 0.1 mV<sub>RMS</sub>
  - Inductance drop = 10% typical at the saturation current.
  - ΔT = 40°C rise typical at the heating current.
  - The rated current is the lower of the saturation or heating current.
  - Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P0250.102 becomes P0250.102T). Pulse complies to industry standard tape and reel specification EIA481.
  - To order RoHS compliant part, add the suffix "NL" to the part number (i.e. P0250.102 becomes P0250.102NL and P0250.102T becomes P0250.102NLT).

### Mechanical

### Schematic

