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SMT Power Inductors

Unshielded Drum Core - P0751NL/52NL Series

Pulse A YAGEO Company



- ***Height:*** *5.5mm Max*
- ***Footprint:*** *13.0mm x 9.4mm Max*
- ***Current Rating:*** *up to 6.8A*
- ***Inductance Range:*** *1.0µH to 1000µH*

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

Part [6,7] Number	Inductance @ I_{PK} A_{DC} (µH ± 20%)	Irated [5] (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
P0751.102	1.0	6.8	10	9.0	6.8
P0751.152	1.5	6.4	12	8.0	6.4
P0751.222	2.2	6.1	15	7.0	6.1
P0751.332	3.3	5.4	18	6.4	5.4
P0751.472	4.7	4.8	33	5.4	4.8
P0751.682	6.8	4.4	44	4.6	4.4
P0751.103	10	3.8	50	3.8	3.9
P0751.153	15	3.0	55	3.0	3.1
P0751.223	22	2.6	114	2.6	2.7
P0751.333	33	2.0	120	2.0	2.1
P0751.473	47	1.6	168	1.6	1.8
P0751.683	68	1.4	240	1.4	1.5
P0752.104	100	1.2	380	1.2	1.3
P0752.154	150	1.0	570	1.0	1.0
P0752.224	220	0.8	840	0.8	0.8
P0752.334	330	0.6	1020	0.6	0.6
P0752.474	470	0.5	1460	0.5	0.5
P0752.684	680	0.4	2170	0.4	0.4
P0752.105	1000	0.3	3300	0.3	0.3

Notes:

1. The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
2. Inductance tested at 100kHz, 10mV$_{RMS}$
3. Inductance drop = 10% typical at the Saturation Current
4. ΔT = 15°C rise typical at the Heating Current
5. The rated current is the lower of the saturation or heating current
6. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. P0751.102NL becomes P0751.102NL**T**). Pulse complies to industry standard tape and reel specification EIA481.
7. The "**NL**" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "**NL**" suffix, but an RoHS compliant version is required, please contact Pulse for availability.

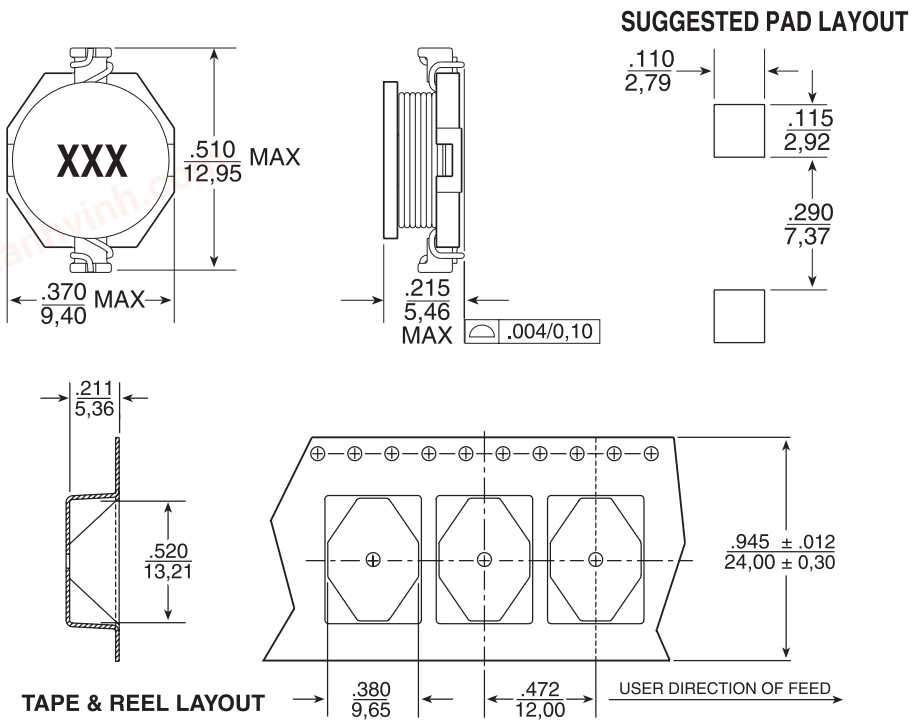
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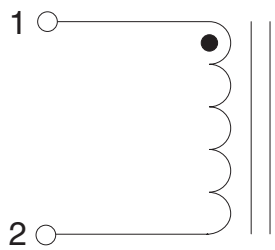
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Mechanical

P0751.XXX/P0752.XXX



Schematic



Weight .....0.8 grams
Tape & Reel 800/reel

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

For More Information

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