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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THT Integrated Common Mode and Differential Mode Choke

PA4040.XXXNL

- *Common Mode and Differential Mode Choke intergrated into a single component reducing overall losses and reducing footprint*
- *Dielectric Strength: 1500Vrms*
- *Common Mode Inductance: 4.5mH (1Arms) to 0.28mH (3.5Arms)*
- *Differential Mode Inductance: 685uH (1.33Apk) to 55uH (4.6Apk)*
- *Size (LxWxH): 31.0mm x 24.9mm x 16.5 mm Max*
- *Safety Spacing: 3.0mm creepage and clearance between windings, 1.5mm between windings and core*

Electrical Specifications @ 25°C – Operating Temperature -40°C to +125°C							
Pulse PN	**Common Mode Inductance** (mH Min) (1-2)=(4-3)	**Differential Mode Inductance** (uH Min) (1-4 with 2,3 shorted)	**Irms** (A)	**Ipeak** (A)	**DCR/winding** (mΩ Max) (1-2)=(4-3)	**SRF** (MHz, typical)	**Impedance at SRF** (kΩ typical)
PA4040.001NL	4.5	685	1.0	1.33	245	0.5	140
PA4040.002NL	1.25	320	1.5	2	120	0.7	47
PA4040.003NL	0.41	96	2.5	3.33	46	1.45	8.5
PA4040.004NL	0.28	55	3.5	4.6	32	1.75	5.3

Notes:

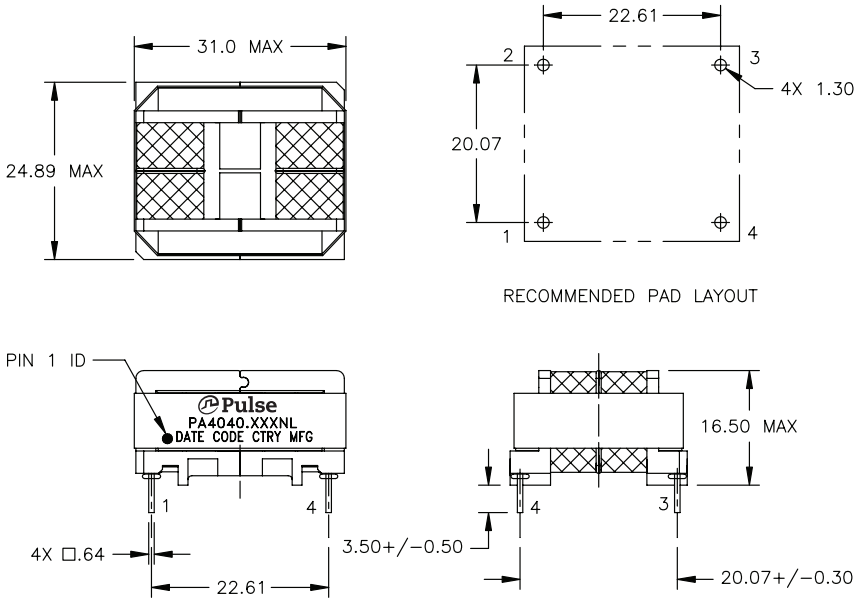
1. The current rating (Irms) is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 40°C.
2. The peak current is the current which will typically cause a 20% drop in the differential mode inductance. The peak current should not be exceeded in the application as it will reduce the CM and DM rejection of the component.
3. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
4. The PA4040.XXXNL is designed to provide 3.0mm of safety spacing (creepage and clearance distance) between windings and 1.5mm of safety spacing (creepage and clearance distance) between both windings and core.

THT Integrated Common Mode and Differential Mode Choke

PA4040.XXXNL

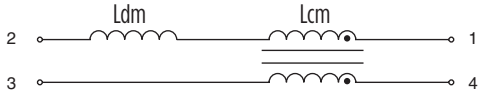
Mechanical

PA4040.XXXNL



Schematic

PA4040.XXXNL



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