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)	lpeak (A)	DCR/winding (m Ω Max) (1-2)=(4-3)	SRF (MHz, typical)	Impedance at SRF ($k\Omega$ 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.

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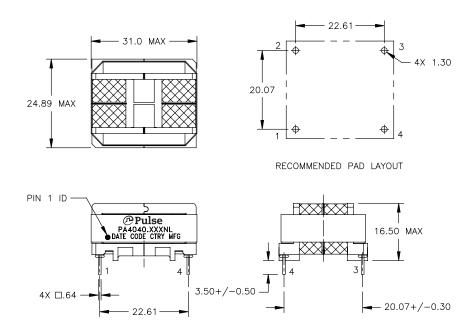
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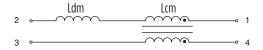
Mechanical

PA4040.XXXNL



Schematic

PA4040.XXXNL



For More Information

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