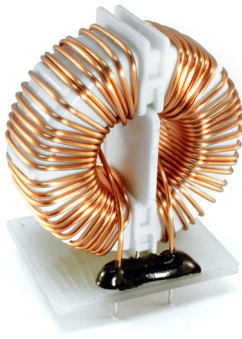


# THT Common Mode Chokes

PA4415NL and PA4416NL



- Dielectric Strength: 1500Vrms
- Inductance Range: 14 mH (at 8A) to 35mH (at 5A)
- Height: 46.0 mm Max
- Footprint: 43.0 mm x 26.0 mm
- Voltage Rating: 250 Vac Max, 1500 Vrms Hi-pot

## Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

| Part Number | Inductance<br>(1-4)=(2-3)<br>(mH Min) | Current Rating <sup>1</sup><br>(1-4)=(2-3)<br>(A) | DCR<br>(1-4)=(2-3)<br>(mΩ Max) | Self Resonant<br>Frequency<br>(1,2-4,3)<br>(MHz Typ) | Impedance<br>(kΩms Typ at SRF) |
|-------------|---------------------------------------|---------------------------------------------------|--------------------------------|------------------------------------------------------|--------------------------------|
| PA4415NL    | 24.5                                  | 5.00                                              | 90.0                           | 0.92                                                 | 29.4                           |
| PA4416NL    | 9.8                                   | 8.00                                              | 27.0                           | 1.96                                                 | 13.8                           |

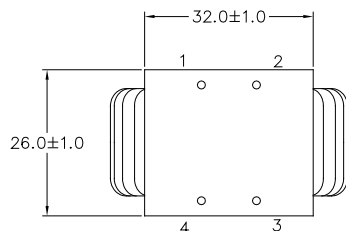
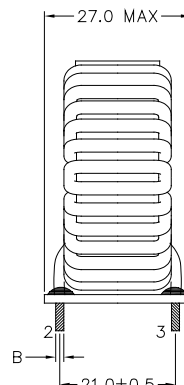
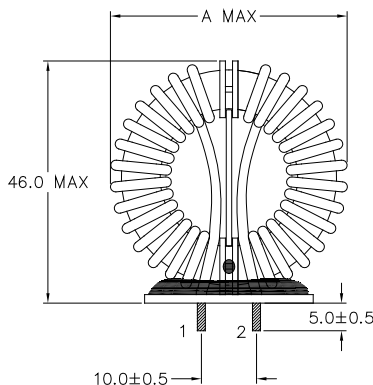
### Notes:

1. The current rating (I<sub>rated</sub>) is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 55°C.
2. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

## Mechanical

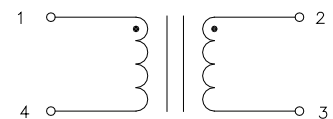
## Schematic

### PA441xNL

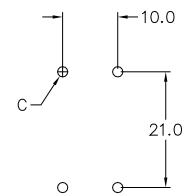


| DIMENSION | "A"   | "B"      | "C"  |
|-----------|-------|----------|------|
| PA4415NL  | 42MAX | ø0.8±0.1 | ø1.2 |
| PA4416NL  | 43MAX | ø1.2±0.1 | ø1.6 |

ALL DIMENSIONS ARE IN MM.



SCHEMATIC



SUGGESTED LAND PATTERN

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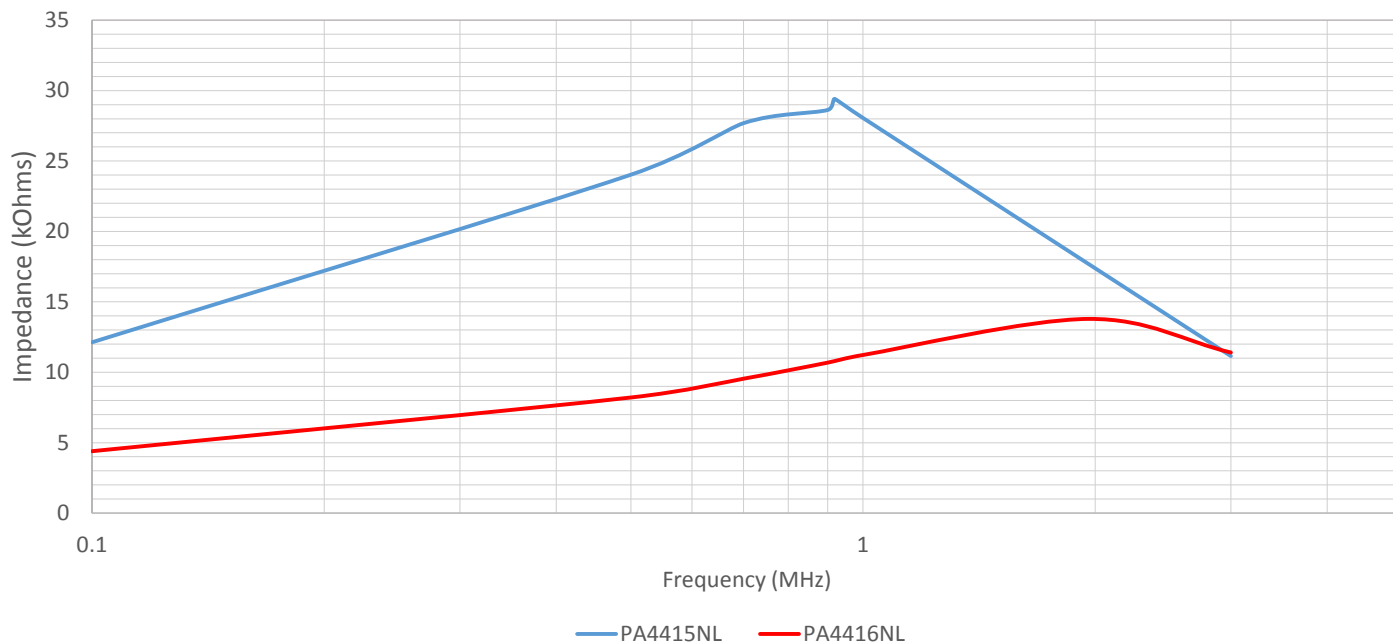
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# THT Common Mode Chokes

PA4415NL and PA4416NL

Impedance vs Frequency, PA4415NL, PA4416NL



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