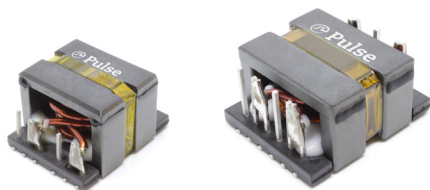


# SMT Common Mode Chokes

PM9407.XXXNLT and PM9408.XXXNLT Series



- ER19 and ER25 Planar Platforms
- 24.9x21.6x16.9mm and 30.5x27x18mm Max
- Up to 39Arms rated current
- Up to 1500Vrms Isolation<sup>4</sup>

Electrical Specifications @ 25°C - Operating Temperature -40°C to +150°C<sup>5</sup>

| Part Number                                  | Inductance<br>(2,3-5,6) | I <sub>rated</sub> | LK<br>(2,3-5,6) with<br>(7,8,10,11) shorted | Capacitance<br>N1 to N2<br>(2,3,5,6) to (7,8,10,11) | DCR<br>(2,3-5,6)=(10,11-7,8) | Self Resonant<br>Frequency<br>(2,3-5,6)=(10,11-7,8) | Impedance at SRF |
|----------------------------------------------|-------------------------|--------------------|---------------------------------------------|-----------------------------------------------------|------------------------------|-----------------------------------------------------|------------------|
|                                              | (uH MIN)                | (A)                | (uH TYP)                                    | (pF TYP)                                            | (mΩ MAX)                     | (MHz TYP)                                           | (kΩ TYP)         |
| PM9407.XXXNLT - 24.9mm x 21.6mm x 16.9mm Max |                         |                    |                                             |                                                     |                              |                                                     |                  |
| PM9407.104NLT                                | 78                      | 20                 | 0.4                                         | 4.3                                                 | 2.50                         | 1.65                                                | 0.73             |
| PM9407.204NLT                                | 130                     | 17                 | 0.5                                         | 6.4                                                 | 3.50                         | 1.79                                                | 1.08             |
| PM9407.304NLT                                | 182                     | 14                 | 0.9                                         | 7.0                                                 | 4.80                         | 1.57                                                | 1.60             |
| PM9407.404NLT                                | 232                     | 12                 | 1.3                                         | 7.2                                                 | 5.30                         | 1.56                                                | 1.72             |
| PM9407.504NLT                                | 312                     | 10                 | 1.5                                         | 7.8                                                 | 7.80                         | 1.42                                                | 2.35             |
| PM9408.XXXNLT - 30.5mm x 27mm x 18mm Max     |                         |                    |                                             |                                                     |                              |                                                     |                  |
| PM9408.164NLT                                | 95                      | 39                 | 1.5                                         | 8                                                   | 1.4                          | 1.6                                                 | 0.4              |
| PM9408.254NLT                                | 150                     | 32                 | 2.0                                         | 8                                                   | 1.9                          | 2.0                                                 | 0.6              |
| PM9408.364NLT                                | 210                     | 23                 | 3.0                                         | 9                                                   | 3.5                          | 1.2                                                 | 1.5              |
| PM9408.494NLT                                | 290                     | 21                 | 4.0                                         | 10                                                  | 4.0                          | 1.1                                                 | 2.0              |
| PM9408.644NLT                                | 380                     | 19                 | 6.0                                         | 11                                                  | 5.6                          | 1.1                                                 | 2.5              |
| PM9408.814NLT                                | 480                     | 18                 | 6.0                                         | 11                                                  | 6.3                          | 1.1                                                 | 3.4              |
| PM9408.105NLT                                | 600                     | 17                 | 6.0                                         | 11                                                  | 7.0                          | 1.1                                                 | 4.3              |
| PM9408.155NLT                                | 870                     | 12                 | 6.0                                         | 11                                                  | 13                           | 0.95                                                | 5.5              |

## NOTE:

- The 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 50°C with free air cooling.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- Pulse complies to industry standard tape and reel specification EIA481.
- 1500Vrms for PM9408.XXXNLT, 1000Vrms for PM9407.XXXNLT.
- Pending qualification to 150°C for PM9407.XXXNLT.

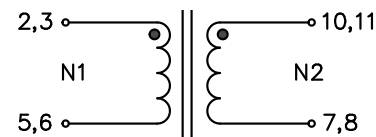
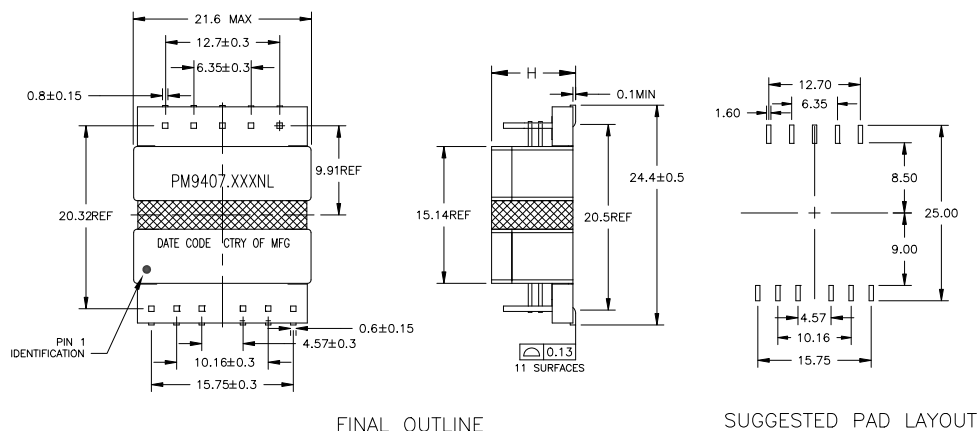
# SMT Common Mode Chokes

PM9407.XXXNLT and PM9408.XXXNLT Series

## Mechanicals

## Schematic

### PM9407.XXXNLT



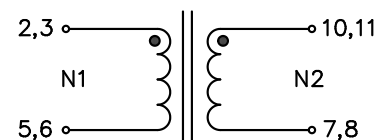
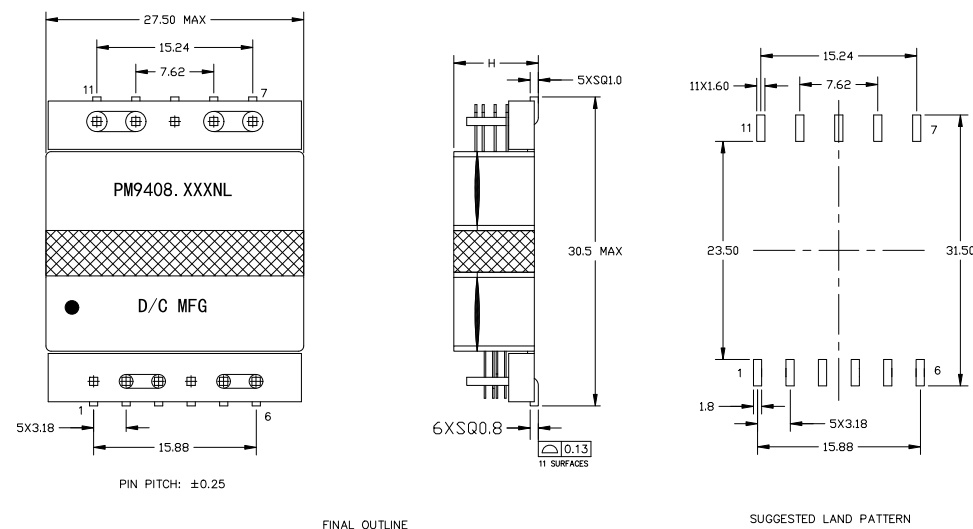
| PM9407. Series | H(mm Max) | Weight(g TYP) |
|----------------|-----------|---------------|
| 104NLT         | 15.0      | 17            |
| 204NLT         | 15.0      | 18            |
| 304NLT         | 16.2      | 19            |
| 404NLT         | 17.1      | 20            |
| 504NLT         | 17.1      | 20            |

Dimensions: mm  
Unless otherwise specified, all tolerance are  $\pm 0.25$

## Mechanicals

## Schematic

### PM9408.XXXNLT



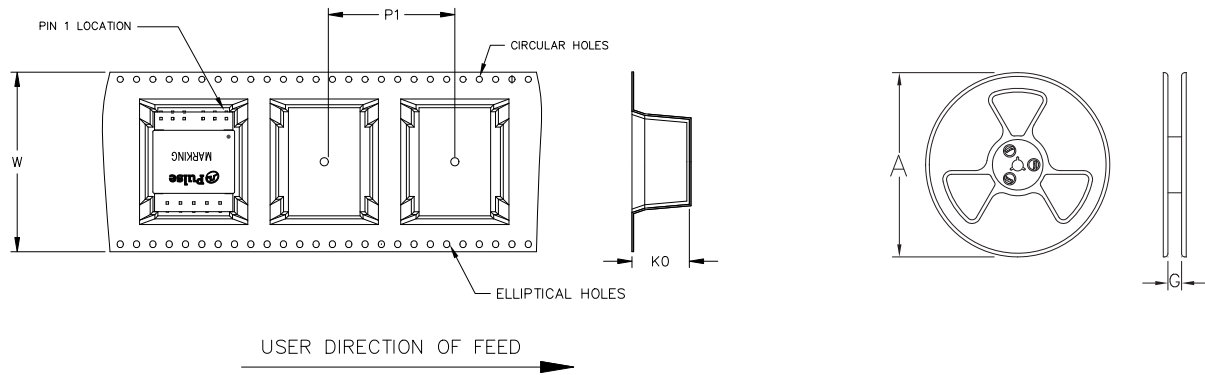
| PM9408. Series | H(mm Max) | Weight(g TYP) |
|----------------|-----------|---------------|
| 164NLT         | 15.0      | 30            |
| 254NLT         | 15.0      | 31            |
| 364NLT         | 17.0      | 34            |
| 494NLT         | 17.0      | 36            |
| 644NLT         | 18.0      | 36            |
| 814NLT         | 18.0      | 37            |
| 105NLT         | 18.0      | 36            |
| 155NLT         | 18.0      | 35            |

Dimensions: mm  
Unless otherwise specified, all tolerance are  $\pm 0.25$

# SMT Common Mode Chokes

PM9407.XXXNLT and PM9408.XXXNLT Series

## TAPE & REEL INFO



| SURFACE MOUNTING TYPE, REEL/TAPE LIST |                |      |                |    |                |          |
|---------------------------------------|----------------|------|----------------|----|----------------|----------|
| PART NUMBER                           | REEL SIZE (mm) |      | TAPE SIZE (mm) |    |                | QTY      |
|                                       | A              | G    | P <sub>1</sub> | W  | K <sub>0</sub> | PCS/REEL |
| PM9407.104NLT                         | Ø330           | 44.4 | 32             | 44 | 15.3           | 100      |
| PM9407.204NLT                         | Ø330           | 44.4 | 32             | 44 | 15.3           | 100      |
| PM9407.304NLT                         | Ø330           | 56.4 | 32             | 56 | 17.0           | 80       |
| PM9407.404NLT                         | Ø330           | 56.4 | 32             | 56 | 17.9           | 80       |
| PM9407.504NLT                         | Ø330           | 56.4 | 32             | 56 | 17.9           | 80       |
| PM9408.164NLT                         | Ø330           | 56.4 | 40             | 56 | 15.8           | 60       |
| PM9408.254NLT                         | Ø330           | 56.4 | 40             | 56 | 15.8           | 60       |
| PM9408.364NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |
| PM9408.494NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |
| PM9408.644NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |
| PM9408.814NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |
| PM9408.105NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |
| PM9408.155NLT                         | Ø330           | 56.4 | 40             | 56 | 18.4           | 45       |

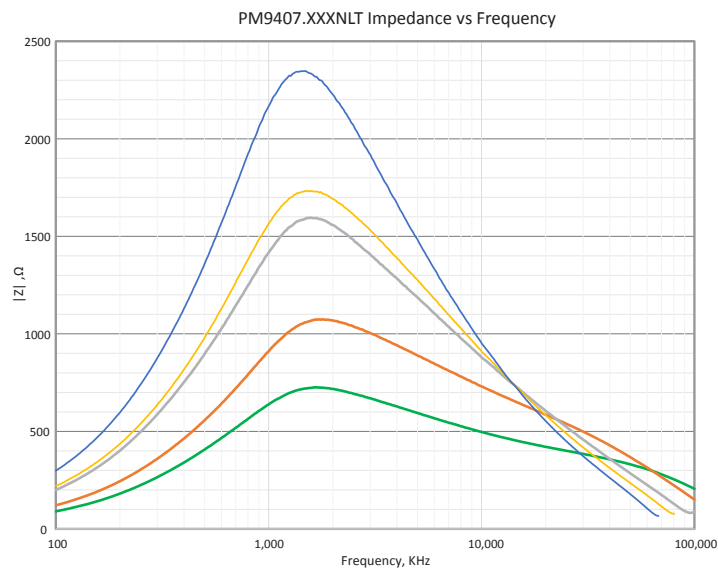
# SMT Common Mode Chokes

PM9407.XXXNLT and PM9408.XXXNLT Series

## Impedance Plots

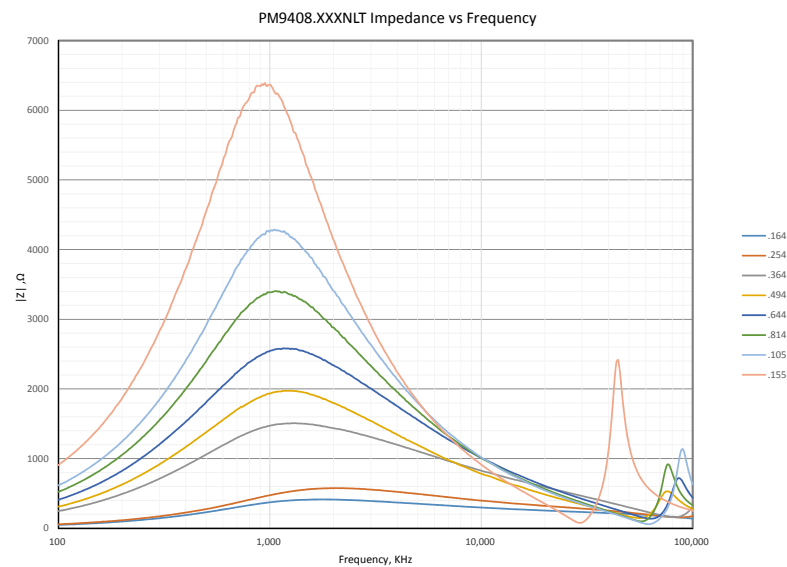
### PM9407.XXXNLT

#### PM9407.XXXNLT



### PM9408.XXXNLT

#### PM9408.XXXNLT



### For More Information:

Americas - [prodinfo\\_power@pulseelectronics.com](mailto:prodinfo_power@pulseelectronics.com) | Europe - [power-apps-europe@pulseelectronics.com](mailto:power-apps-europe@pulseelectronics.com) | Asia - [power-apps-asia@pulseelectronics.com](mailto:power-apps-asia@pulseelectronics.com)

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