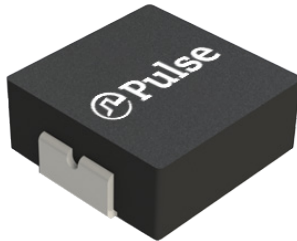


# SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT & PM4341.XXXNLT



- Ⓟ **Height:** 3.0mm Max
- Ⓟ **Footprint:** 7.6mm x 6.9mm Max
- Ⓟ **Current Rating:** up to 32.5A
- Ⓟ **Inductance Range:** 0.1uH to 47.0uH
- Ⓟ Shielded construction and compact design
- Ⓟ High current, low DCR, and high efficiency
- Ⓟ Minimized acoustic noise and minimized leakage flux
- Ⓟ 200Vdc Isolation between terminal and core

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C

| Commercial <sup>6,7</sup> | Automotive <sup>6,7</sup> | Inductance <sup>5</sup><br>100KHz, 1V<br><br>(uH ±20%) | Rated <sup>3</sup><br>Current<br><br>A | DC Resistance |      | Saturation <sup>2</sup><br>Current<br><br>A |
|---------------------------|---------------------------|--------------------------------------------------------|----------------------------------------|---------------|------|---------------------------------------------|
|                           |                           |                                                        |                                        | TYP.          | MAX. |                                             |
|                           |                           |                                                        |                                        | mΩ            | mΩ   |                                             |
| PA4341.101NLT             | PM4341.101NLT             | 0.10*                                                  | 32.5                                   | 1.2           | 1.7  | 60                                          |
| PA4341.131NLT             | PM4341.131NLT             | 0.13*                                                  | 27.6                                   | 1.3           | 1.8  | 50                                          |
| PA4341.151NLT             | PM4341.151NLT             | .15*                                                   | 27                                     | 1.5           | 1.9  | 45                                          |
| PA4341.161NLT             | PM4341.161NLT             | .16*                                                   | 27                                     | 1.5           | 1.9  | 45                                          |
| PA4341.181NLT             | PM4341.181NLT             | .18*                                                   | 25                                     | 1.7           | 2.3  | 43                                          |
| PA4341.191NLT             | PM4341.191NLT             | .19*                                                   | 24                                     | 1.8           | 2.5  | 41                                          |
| PA4341.201NLT             | PM4341.201NLT             | .20*                                                   | 24                                     | 1.8           | 2.5  | 41                                          |
| PA4341.221NLT             | PM4341.221NLT             | .22*                                                   | 23                                     | 2.1           | 2.8  | 40                                          |
| PA4341.241NLT             | PM4341.241NLT             | .24                                                    | 22                                     | 2.5           | 3.1  | 39                                          |
| PA4341.251NLT             | PM4341.251NLT             | .25                                                    | 21                                     | 3.3           | 3.5  | 39                                          |
| PA4341.301NLT             | PM4341.301NLT             | 0.30                                                   | 21                                     | 3.2           | 3.8  | 35                                          |
| PA4341.331NLT             | PM4341.331NLT             | 0.33                                                   | 20                                     | 3.5           | 3.9  | 32                                          |
| PA4341.361NLT             | PM4341.361NLT             | 0.36                                                   | 19                                     | 3.6           | 4.2  | 32                                          |
| PA4341.471NLT             | PM4341.471NLT             | 0.47                                                   | 17.5                                   | 4.0           | 4.2  | 26                                          |
| PA4341.561NLT             | PM4341.561NLT             | 0.56                                                   | 16.5                                   | 4.7           | 5.0  | 25.5                                        |
| PA4341.601NLT             | PM4341.601NLT             | 0.60                                                   | 16                                     | 4.7           | 5.2  | 25.5                                        |
| PA4341.681NLT             | PM4341.681NLT             | 0.68                                                   | 15.5                                   | 4.8           | 5.5  | 25                                          |
| PA4341.751NLT             | PM4341.751NLT             | 0.75                                                   | 14.5                                   | 5.5           | 6.6  | 24.5                                        |
| PA4341.821NLT             | PM4341.821NLT             | 0.82                                                   | 13                                     | 6.7           | 8.0  | 24                                          |
| PA4341.901NLT             | PM4341.901NLT             | .90                                                    | 11                                     | 8.3           | 10   | 22                                          |
| PA4341.102NLT             | PM4341.102NLT             | 1.0                                                    | 11                                     | 8.3           | 10   | 22                                          |
| PA4341.122NLT             | PM4341.122NLT             | 1.2                                                    | 10                                     | 10            | 12   | 20                                          |
| PA4341.152NLT             | PM4341.152NLT             | 1.5                                                    | 9.0                                    | 13            | 15   | 18                                          |

# SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT & PM4341.XXXNLT



Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C

| Commercial <sup>6,7</sup> | Automotive <sup>6,7</sup> | Inductance <sup>5</sup><br>100KHz, 1V<br><br>( $\mu\text{H} \pm 20\%$ ) | Rated <sup>5</sup><br>Current<br><br>A | DC Resistance |            | Saturation <sup>2</sup><br>Current<br><br>A |
|---------------------------|---------------------------|-------------------------------------------------------------------------|----------------------------------------|---------------|------------|---------------------------------------------|
|                           |                           |                                                                         |                                        | TYP.          | MAX.       |                                             |
|                           |                           |                                                                         |                                        | m $\Omega$    | m $\Omega$ |                                             |
| PA4341.182NLT             | PM4341.182NLT             | 1.8                                                                     | 8.5                                    | 14            | 17         | 16                                          |
| PA4341.202NLT             | PM4341.202NLT             | 2.0                                                                     | 8.2                                    | 16            | 19         | 15                                          |
| PA4341.222NLT             | PM4341.222NLT             | 2.2                                                                     | 8.0                                    | 18            | 20         | 14                                          |
| PA4341.252NLT             | PM4341.252NLT             | 2.5                                                                     | 7.0                                    | 20            | 22         | 13                                          |
| PA4341.272NLT             | PM4341.272NLT             | 2.7                                                                     | 7.0                                    | 24            | 27         | 13                                          |
| PA4341.332NLT             | PM4341.332NLT             | 3.3                                                                     | 6.0                                    | 28            | 30         | 13.5                                        |
| PA4341.472NLT             | PM4341.472NLT             | 4.7                                                                     | 5.5                                    | 37            | 40         | 10                                          |
| PA4341.562NLT             | PM4341.562NLT             | 5.6                                                                     | 5.0                                    | 43            | 48         | 9.0                                         |
| PA4341.682NLT             | PM4341.682NLT             | 6.8                                                                     | 4.5                                    | 54            | 60         | 8.0                                         |
| PA4341.822NLT             | PM4341.822NLT             | 8.2                                                                     | 4.0                                    | 64            | 68         | 7.5                                         |
| PA4341.103NLT             | PM4341.103NLT             | 10                                                                      | 3.5                                    | 75            | 85         | 6.0                                         |
| PA4341.123NLT             | PM4341.123NLT             | 12                                                                      | 3.3                                    | 81            | 93         | 5.5                                         |
| PA4341.153NLT             | PM4341.153NLT             | 15                                                                      | 3.0                                    | 107           | 123        | 4.0                                         |
| PA4341.223NLT             | PM4341.223NLT             | 22                                                                      | 2.0                                    | 165           | 190        | 3.5                                         |
| PA4341.333NLT             | PM4341.333NLT             | 33                                                                      | 2.0                                    | 200           | 240        | 2.5                                         |
| PA4341.403NLT             | PM4341.403NLT             | 40                                                                      | 1.9                                    | 283           | 340        | 2.3                                         |
| PA4341.473NLT             | PM4341.473NLT             | 47                                                                      | 1.75                                   | 302           | 363        | 2.0                                         |

**Notes:**

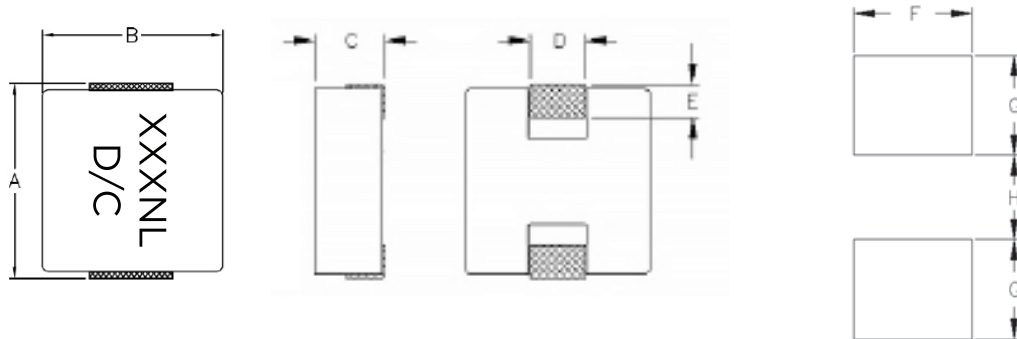
- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
- The rated current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' performance varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during system operation.
- The part temperature (ambient+temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Please note that the inductance tolerance of all parts are +/-20% except those indicated with a \* which are +/-30%.
- Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution **and lead times may be longer**. Please contact Pulse for availability.
- The PM part numbers have full automotive IATF16949 certification. The PM part number dimensions are 100% tested in production but do not necessarily meet a product capability index (Cpk)> 1.33 and therefore may not strictly conform to PPAP.
- Special Characteristics

# SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT & PM4341.XXXNLT

## Mechanical

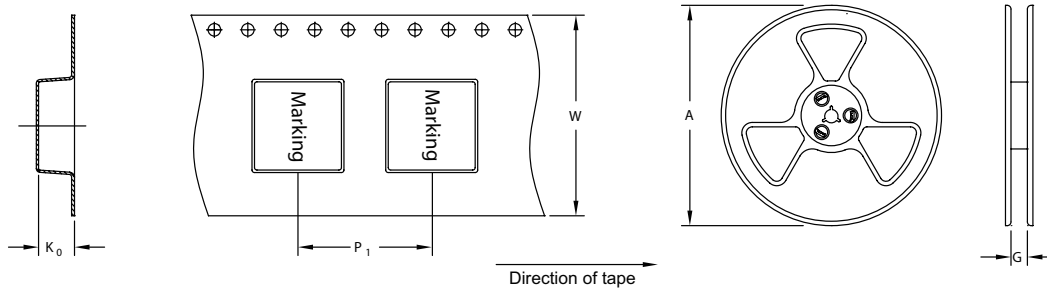
### PA4341.XXXNLT and PM4341.XXXNLT



| Series        | A       | B       | C       | D     | E     | F     | G      | H     |
|---------------|---------|---------|---------|-------|-------|-------|--------|-------|
| PA4341/PM4341 | 7.6 MAX | 6.9 MAX | 3.0 MAX | (3.0) | (1.1) | (3.5) | (2.95) | (2.5) |

All Dimensions in mm.

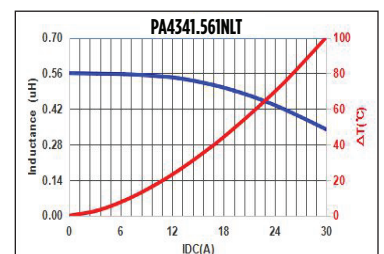
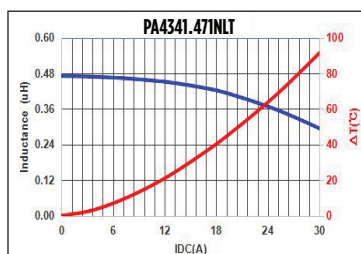
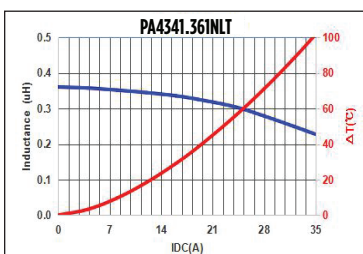
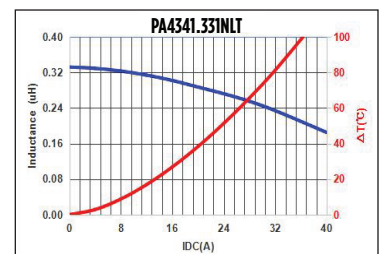
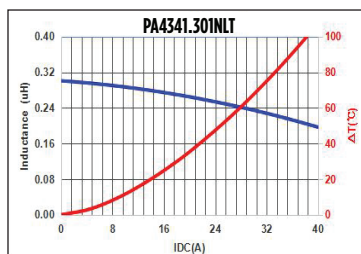
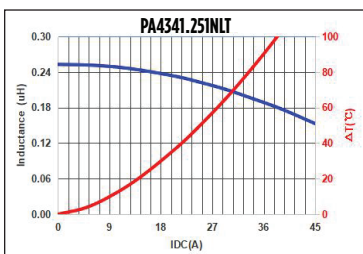
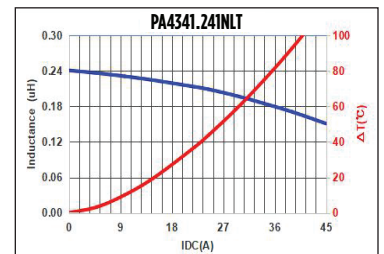
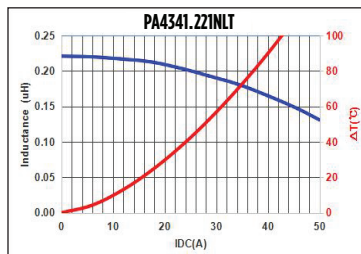
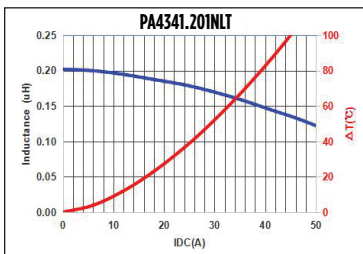
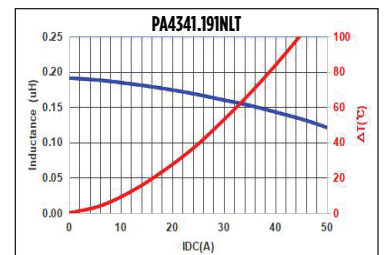
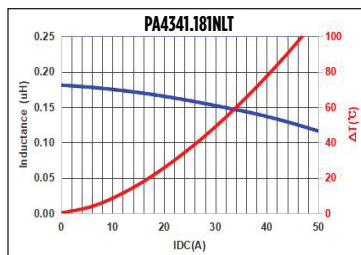
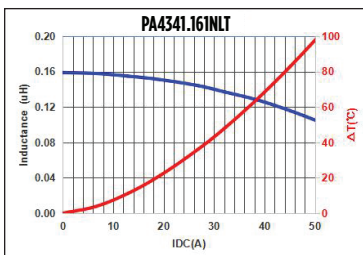
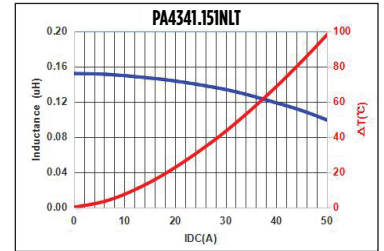
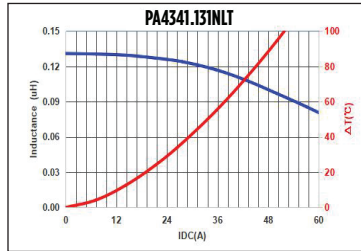
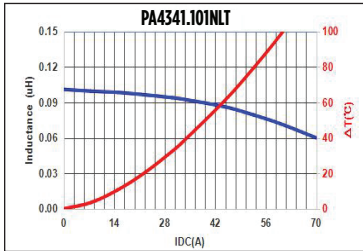
### TAPE & REEL INFO



| SURFACE MOUNTING TYPE, REEL/TAPE LIST |                |    |                |    |                |          |
|---------------------------------------|----------------|----|----------------|----|----------------|----------|
|                                       | REEL SIZE (mm) |    | TAPE SIZE (mm) |    |                | QTY      |
|                                       | A              | G  | P <sub>1</sub> | W  | K <sub>0</sub> | PCS/REEL |
| PA4341/PM4341                         | Ø330           | 16 | 12             | 16 | 3.3            | 1000     |

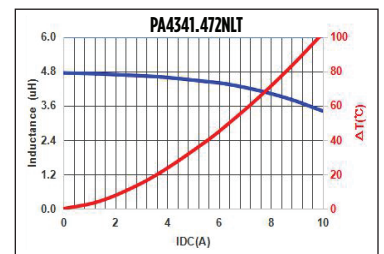
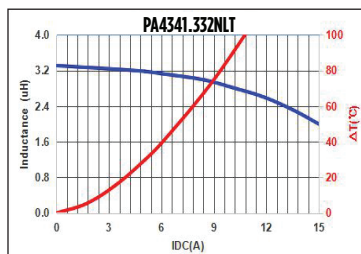
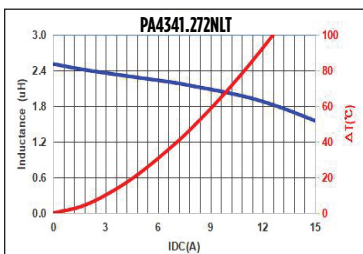
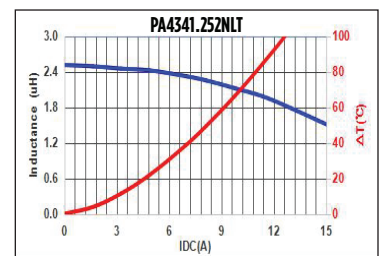
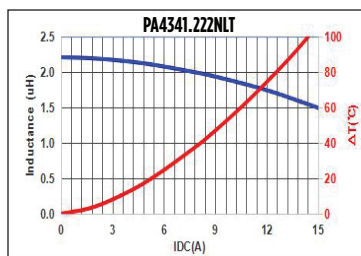
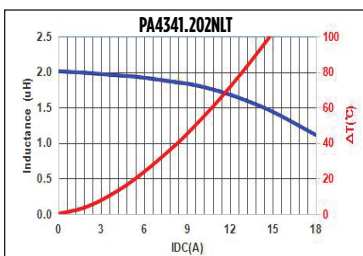
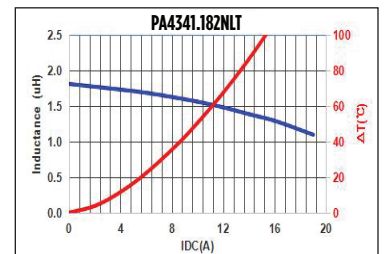
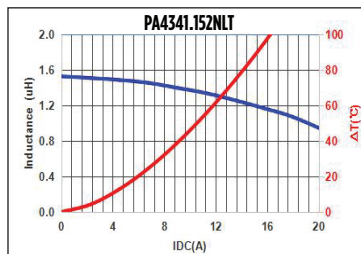
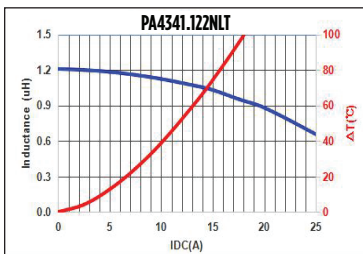
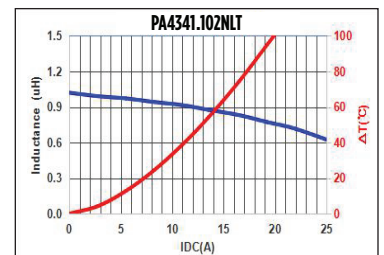
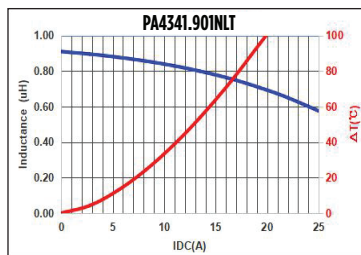
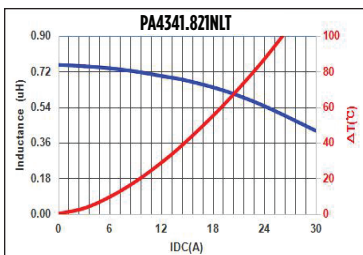
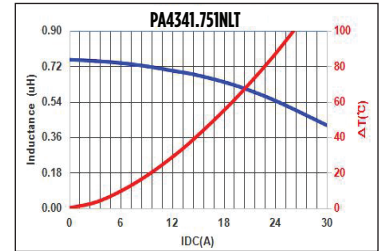
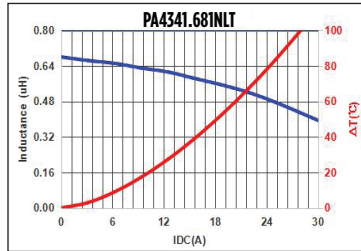
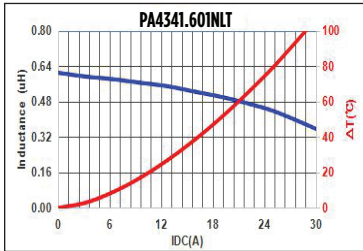
## Typical Performance Curves

### PA4341.XXXNLT and PM4341.XXXNLT



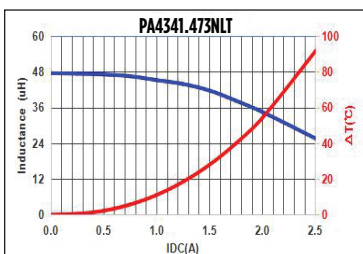
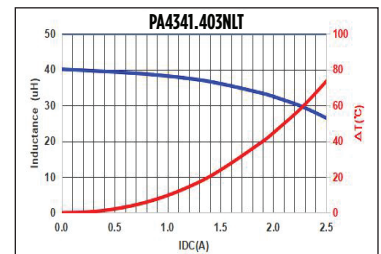
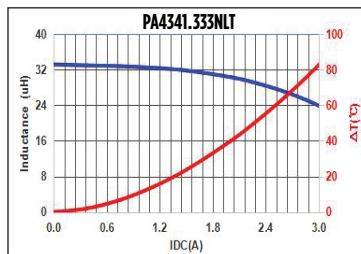
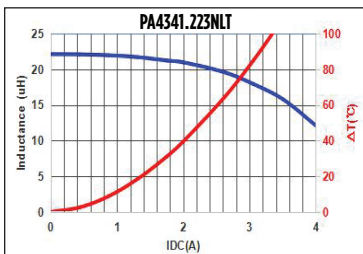
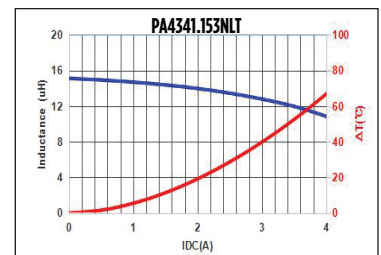
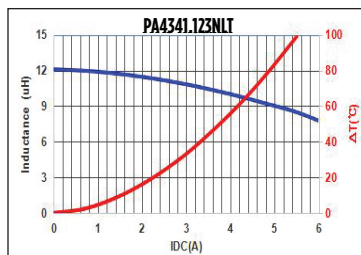
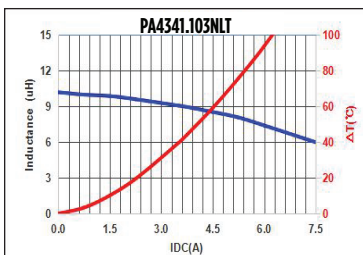
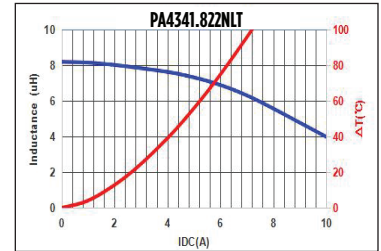
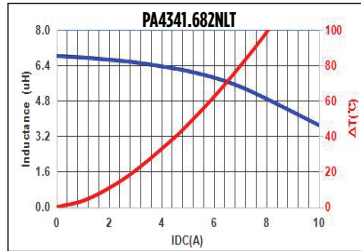
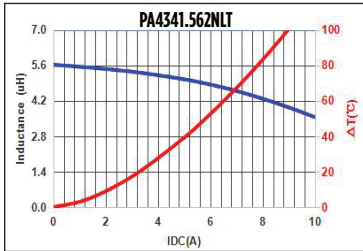
# SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT & PM4341.XXXNLT



# SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT & PM4341.XXXNLT



## For More Information:

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