






SMT Power Inductor

Shielded Drum Core - PA4334.XXXNLT Series



-  **Height:** 1.2mm Max
-  **Footprint:** 3.2mm x 3.2mm Max
-  **Current Rating:** up to 3.0A
-  **Inductance Range:** 0.22uH to 100uH
-  Shielded magnetic circuit reduces leakage flux, Fe base metal core enables high saturation and metalized core termination results in excellent shock resistance.

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

| Part Number | Inductance 1MHz, 1V uH | Rated Current A | Min. Self-Resonant Frequency MHz | DC Resistance | | Saturation Current (20°C) A | Heating Current A |
|---------------|----------------------------------|------------------------|---|---------------|------|---------------------------------------|--------------------------|
| | | | | MAX. | TYP. | | |
| | | | | mΩ | mΩ | | Δ T ≈ 40°C |
| PA4334.221NLT | 0.22 ± 30% | 3.00 | 328 | 22 | 17 | 5.30 | 3.00 |
| PA4334.821NLT | 0.82 ± 30% | 2.05 | 107 | 39 | 30 | 2.05 | 2.47 |
| PA4334.102NLT | 1.0 ± 30% | 1.87 | 89 | 52 | 40 | 1.87 | 2.20 |
| PA4334.122NLT | 1.2 ± 30% | 2.01 | 83 | 59 | 45 | 2.22 | 2.01 |
| PA4334.152NLT | 1.5 ± 30% | 1.62 | 71 | 59 | 45 | 1.62 | 2.01 |
| PA4334.182NLT | 1.8 ± 30% | 1.30 | 65 | 82 | 63 | 1.30 | 1.65 |
| PA4334.222NLT | 2.2 ± 30% | 1.20 | 55 | 98 | 75 | 1.20 | 1.55 |
| PA4334.242NLT | 2.4 ± 30% | 1.15 | 47 | 88 | 68 | 1.15 | 1.60 |
| PA4334.272NLT | 2.7 ± 20% | 1.14 | 54 | 110 | 85 | 1.14 | 1.48 |
| PA4334.332NLT | 3.3 ± 20% | 1.05 | 46 | 130 | 100 | 1.05 | 1.36 |
| PA4334.362NLT | 3.6 ± 20% | 1.05 | 36 | 130 | 100 | 1.05 | 1.36 |
| PA4334.392NLT | 3.9 ± 20% | 1.00 | 53 | 189 | 145 | 1.00 | 1.24 |
| PA4334.472NLT | 4.7 ± 20% | 0.90 | 31 | 156 | 120 | 0.90 | 1.24 |
| PA4334.682NLT | 6.8 ± 20% | 0.75 | 30 | 247 | 190 | 0.75 | 0.98 |
| PA4334.103NLT | 10 ± 20% | 0.60 | 23 | 345 | 265 | 0.60 | 0.83 |
| PA4334.123NLT | 12 ± 20% | 0.48 | 20 | 449 | 345 | 0.48 | 0.73 |
| PA4334.153NLT | 15 ± 20% | 0.45 | 22 | 468 | 360 | 0.45 | 0.71 |
| PA4334.183NLT | 18 ± 20% | 0.43 | 16 | 709 | 545 | 0.43 | 0.58 |
| PA4334.223NLT | 22 ± 20% | 0.42 | 22 | 839 | 645 | 0.42 | 0.53 |
| PA4334.273NLT | 27 ± 20% | 0.35 | 12 | 1131 | 870 | 0.35 | 0.47 |

USA 858 674 8100

Germany 49 2354 777 100

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

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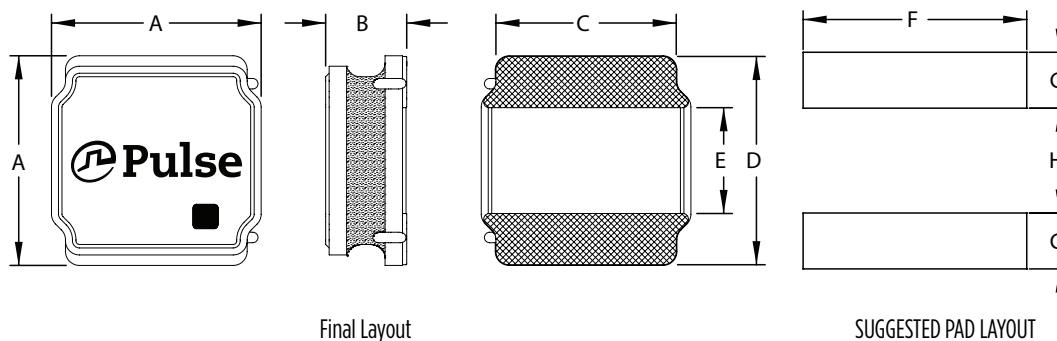
| Part Number | Inductance 1MHz, 1V uH | Rated Current A | Min. Self-Resonant Frequency MHz | DC Resistance | | Saturation Current (20°C) A | Heating Current $\Delta T \approx 40^\circ C$ A |
|---------------|----------------------------------|------------------------|---|---------------|------|---------------------------------------|---|
| | | | | MAX. | TYP. | | |
| | | | | mΩ | mΩ | | |
| PA4334.333NLT | 33 ± 20% | 0.36 | 12 | 1138 | 875 | 0.36 | 0.46 |
| PA4334.363NLT | 36 ± 20% | 0.34 | 10 | 1235 | 950 | 0.34 | 0.44 |
| PA4334.393NLT | 39 ± 20% | 0.37 | 10 | 1729 | 1330 | 0.30 | 0.37 |
| PA4334.473NLT | 47 ± 20% | 0.27 | 11 | 1885 | 1450 | 0.27 | 0.35 |
| PA4334.563NLT | 56 ± 20% | 0.26 | 9 | 1794 | 1380 | 0.26 | 0.28 |
| PA4334.683NLT | 68 ± 20% | 0.24 | 7 | 2171 | 1670 | 0.24 | 0.33 |
| PA4334.823NLT | 82 ± 20% | 0.17 | 7 | 3302 | 2540 | 0.17 | 0.27 |
| PA4334.104NLT | 100 ± 20% | 0.21 | 5 | 3718 | 2860 | 0.21 | 0.25 |

Notes:

- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- The rated current as listed is either the saturation current (@ 20°C) or the heating current ($\Delta T \approx 40^\circ C$) depending on which value is lower.
- 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 heating 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.
- Maximum voltage across terminals to be limited to <40Vdc

Mechanical

PA4334.XXXNLT



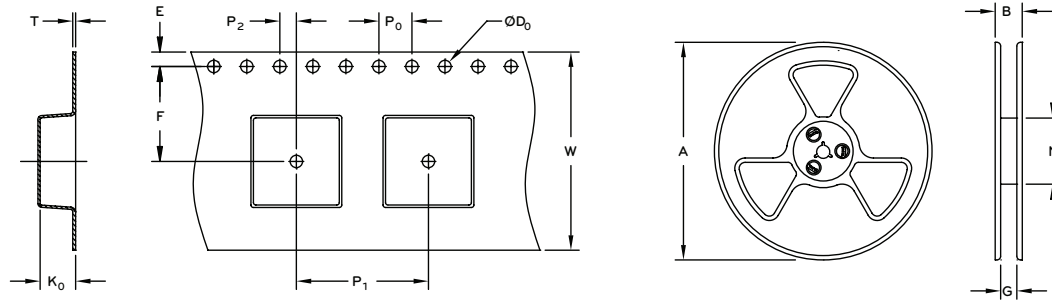
| Series | A | B | C | D | E | F | G | H |
|---------------|---------|---------|-------|-------|-------|-------|-------|-------|
| PA4334.XXXNLT | 3.2 MAX | 1.2 MAX | (2.5) | (3.0) | (1.5) | (2.7) | (0.8) | (1.5) |

All Dimensions in mm.

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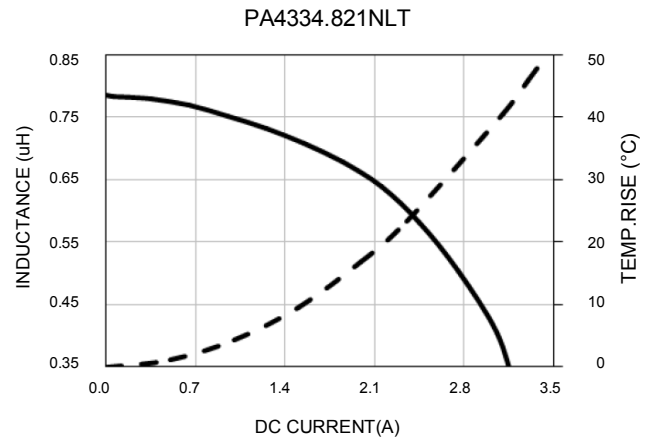
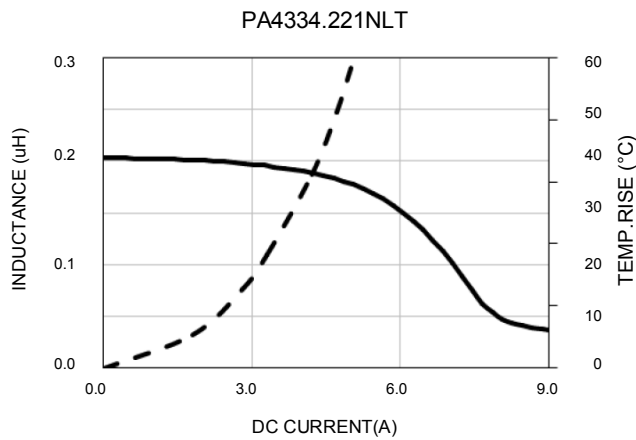
TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

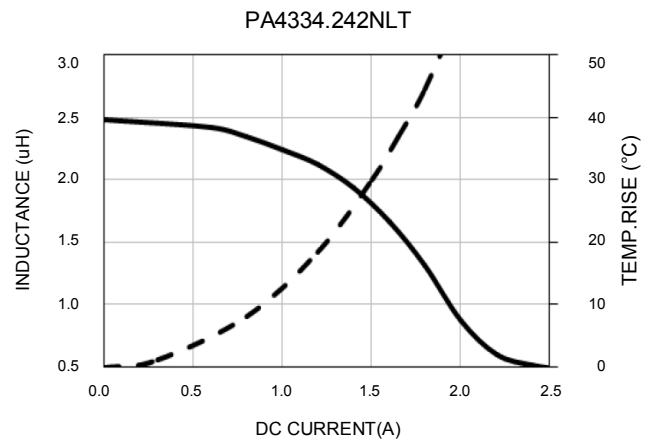
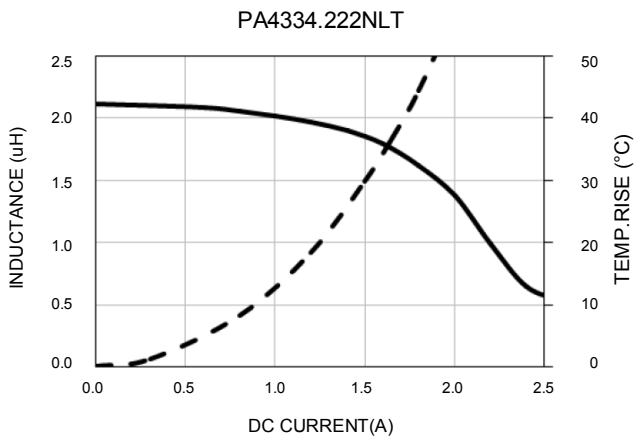
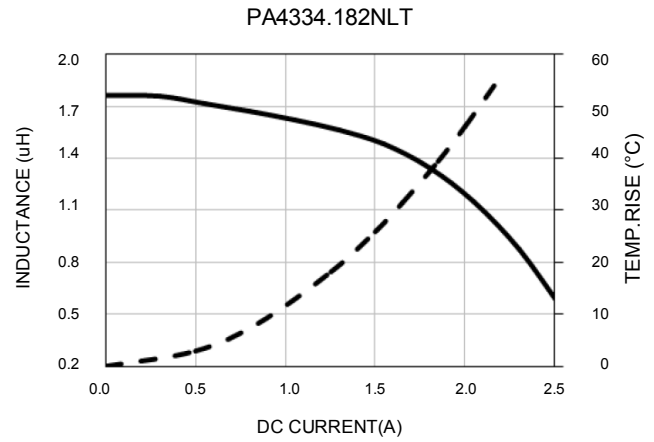
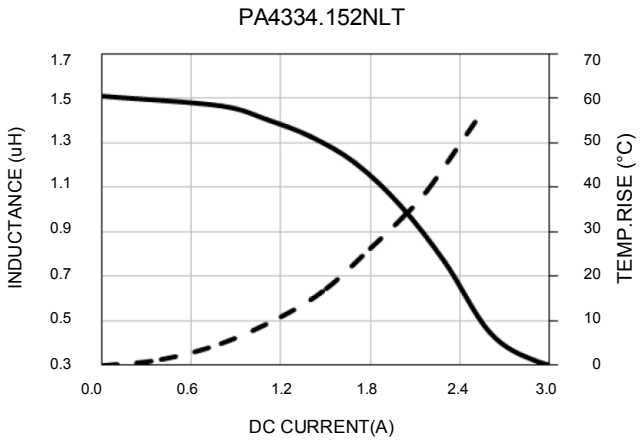
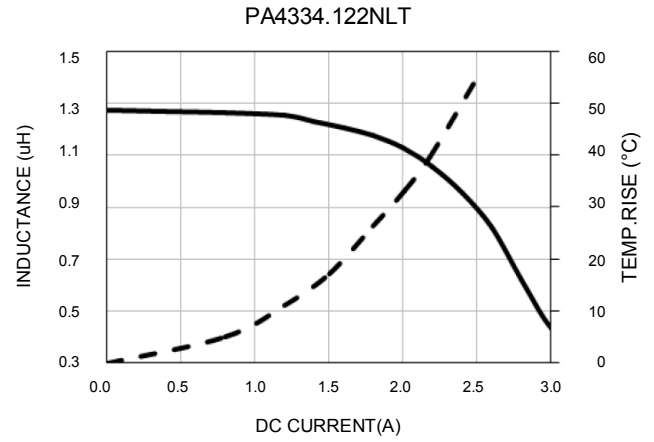
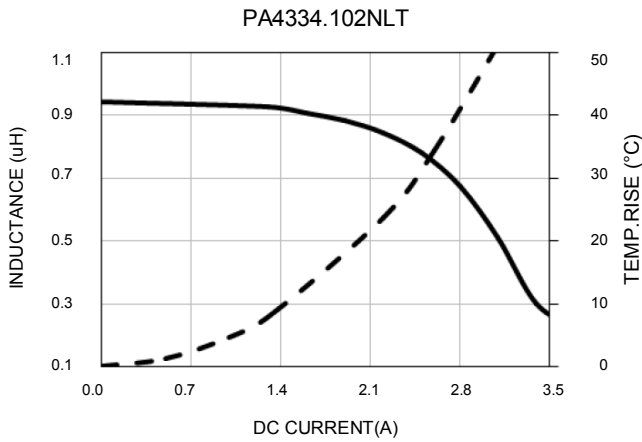
| | REEL SIZE (mm) | | | | TAPE SIZE (mm) | | | | | | | | | QTY |
|---------------|----------------|------|-----|----|----------------|-----|----------------|----------------|----------------|----------------|---|------|----------------|----------|
| | A | B | G | N | E | F | D ₀ | P ₁ | P ₀ | P ₂ | W | T | K ₀ | PCS/REEL |
| PA4334.XXXNLT | Ø178 | 14.4 | 8.4 | 58 | 1.75 | 3.5 | 1.5 | 4 | 4 | 2 | 8 | 0.25 | 1.6 | 2000 |

Typical Performance Curves



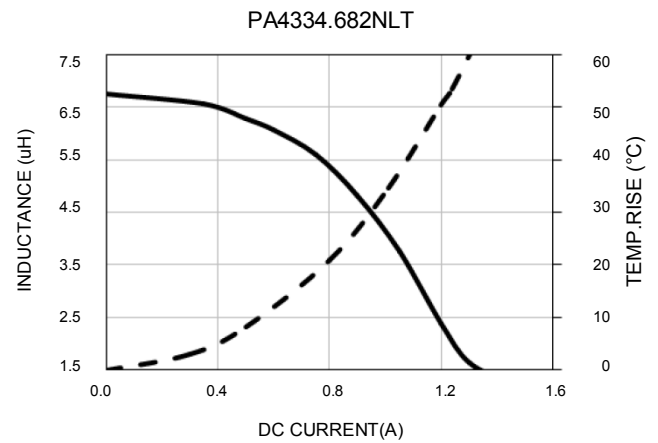
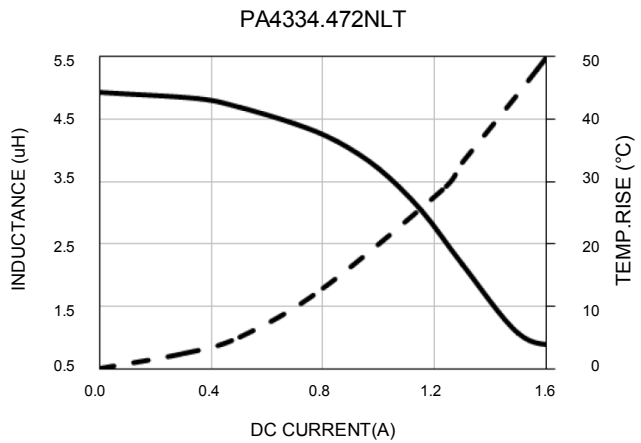
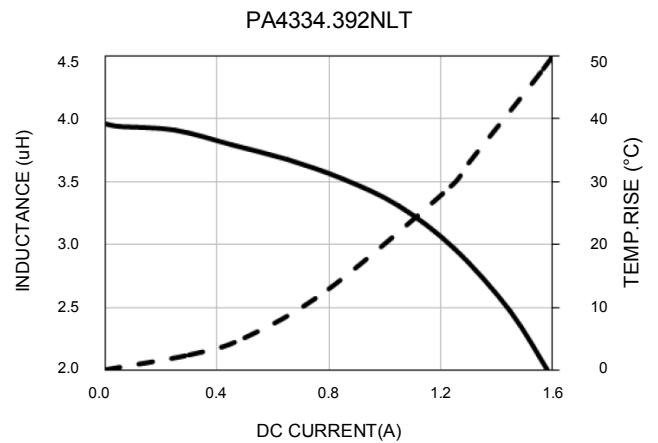
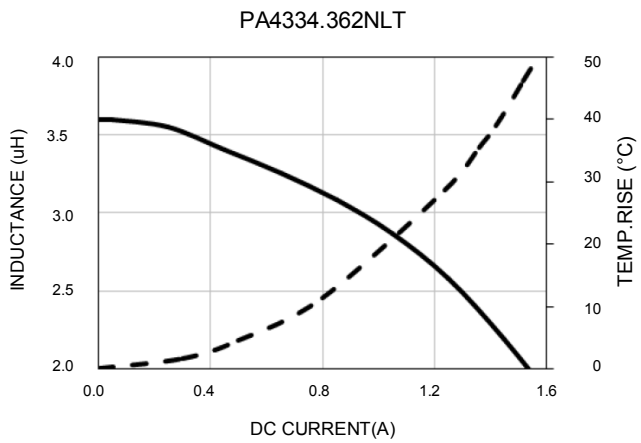
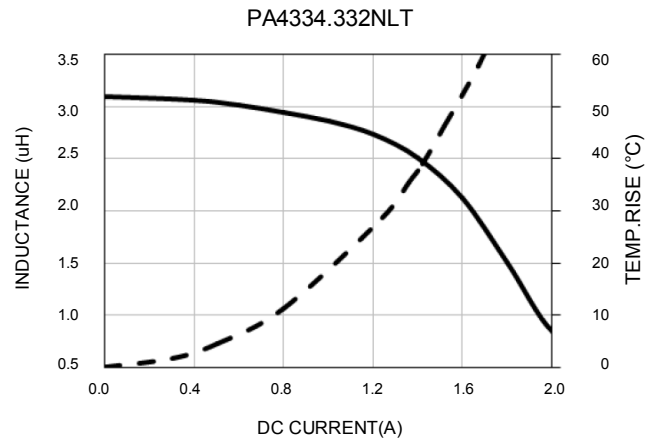
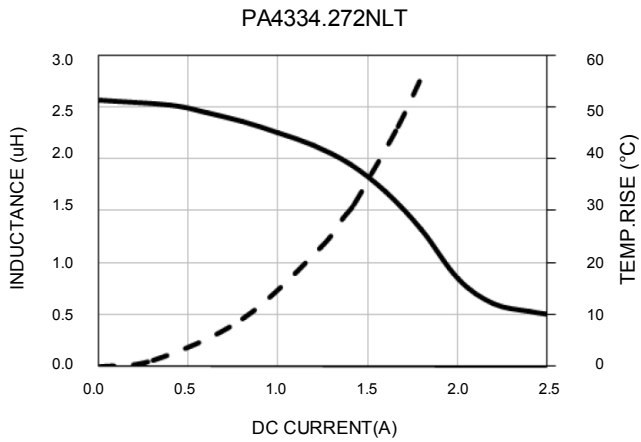
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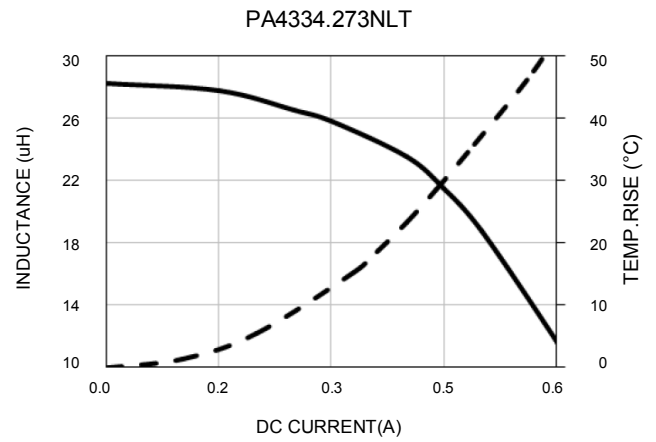
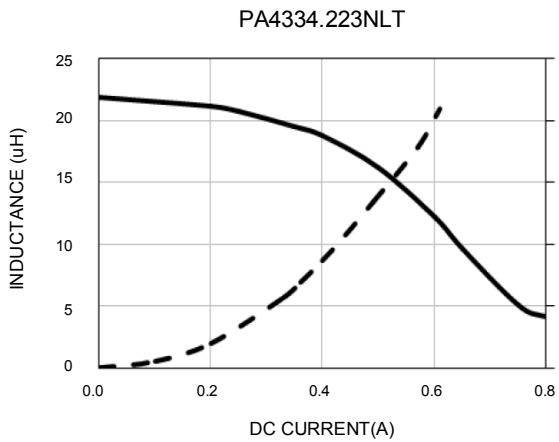
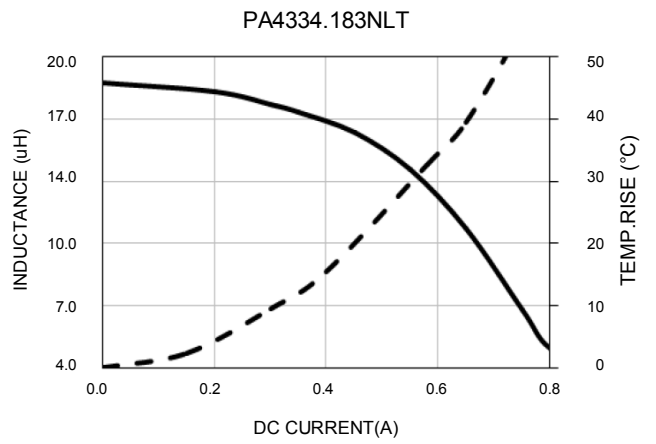
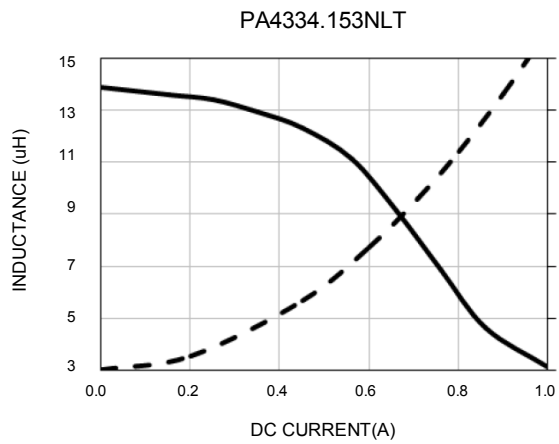
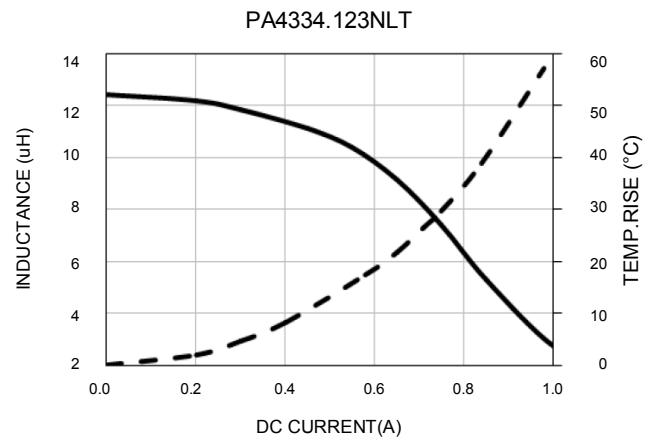
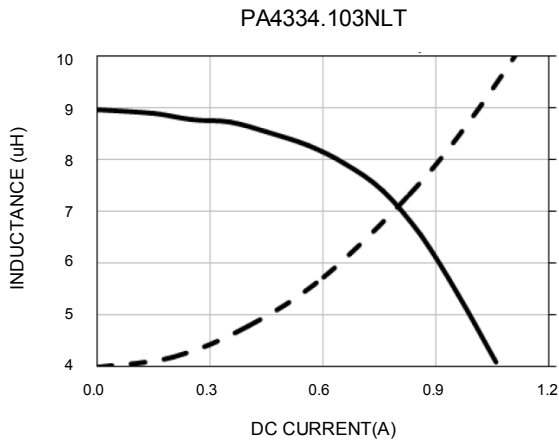
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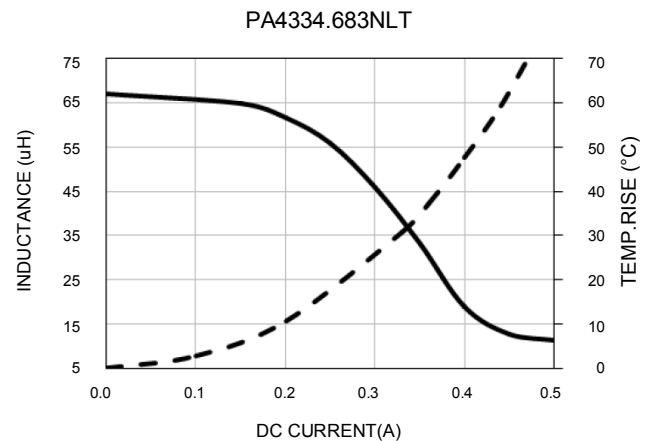
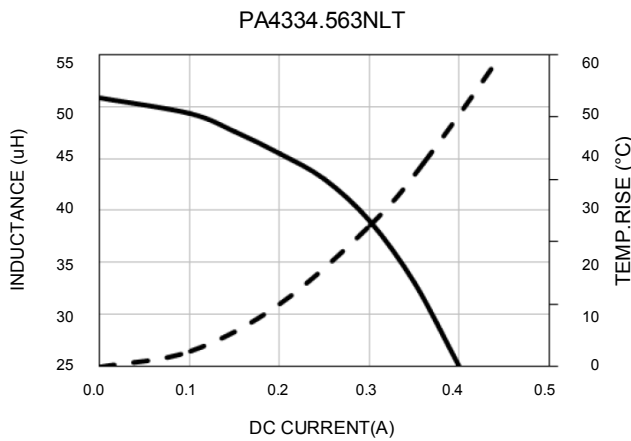
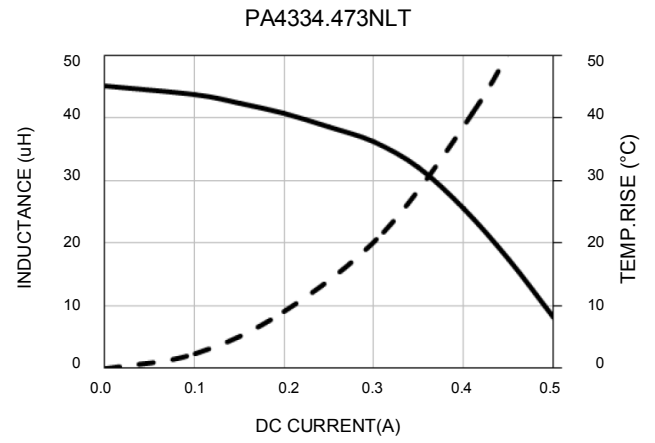
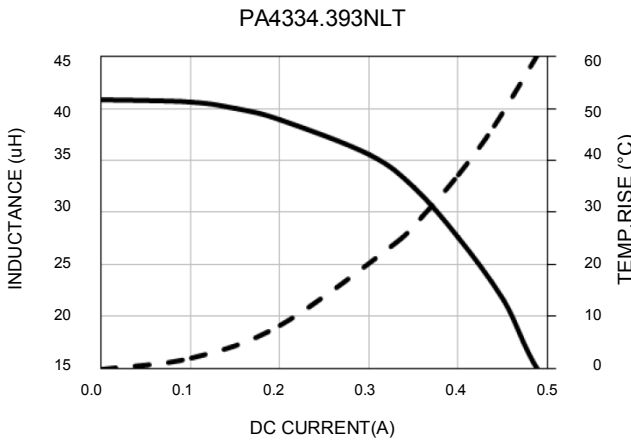
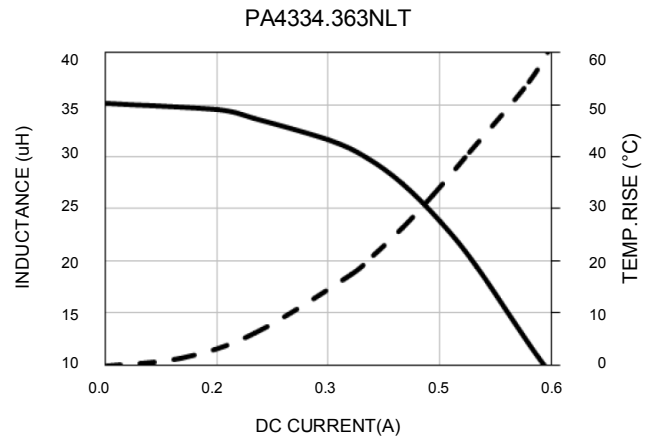
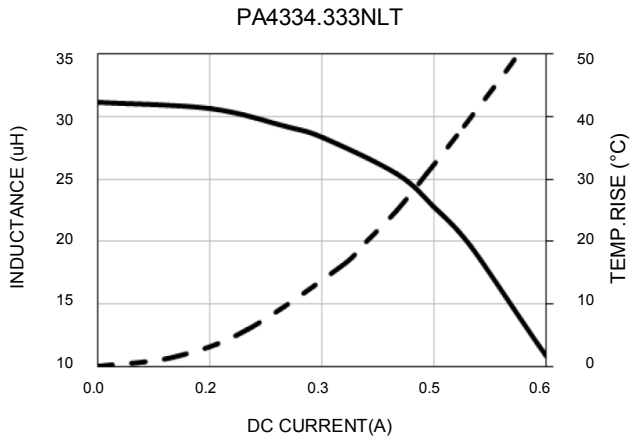
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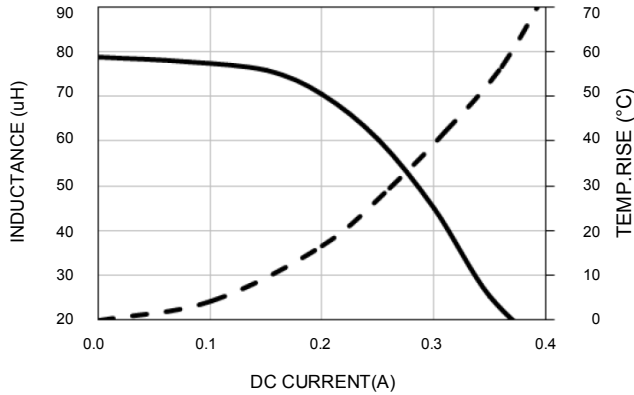
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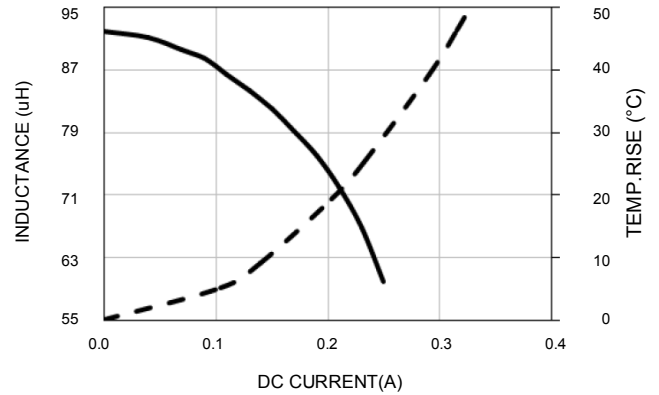
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PA4334.823NLT



PA4334.104NLT



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