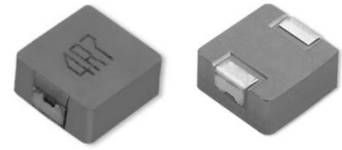


FEATURES

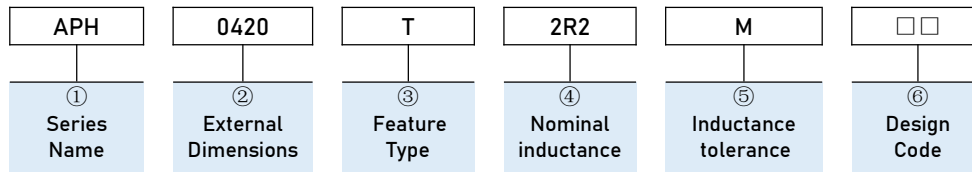
- Lowest molded height in this package Footprint.
- Shielded construction.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Encapsulated body offers improved environmental protection and moisture resistance.
- Corrosion resistant package.
- Operating Temperature: -40°C ~ + 125°C .



APPLICATIONS

- PDA, notebook, desktop, server applications.
- High current POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array.
- RoHS, REACH Compliance.

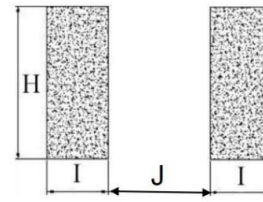
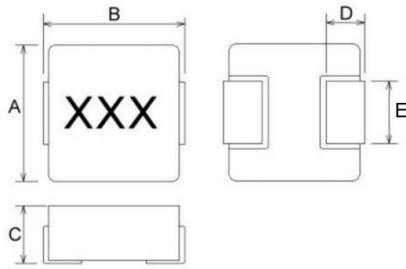
PART NUMBERING



| ① Series Name | |
|------------------------|----------------------------|
| APH | Molded SMD Power Inductors |
| ③ Feature Type | |
| T | Standard |
| ④ Nominal inductance | |
| Code (example) | Nominal inductance [μH] |
| 4R7 | 4.7 |
| 100 | 10 |
| 101 | 100 |
| ⑤ Inductance tolerance | |
| Code (example) | Inductance tolerance |
| M | ±20% |
| ⑥ Design Code | |
| □□ | Standard product is blank |

| ② External Dimensions(L×W×H) [mm] | |
|-----------------------------------|-----------------|
| 0412 | 4.4x4.2x1 |
| 0420 | 4.4x4.2x1.8 |
| 0518 | 5.4x5.2x1.6 |
| 0530 | 5.4x5.2x2.8 |
| 0615 | 7x6.6x1.3 |
| 0618 | 7x6.6x1.6 |
| 0620 | 7x6.6x1.8 |
| 0624 | 7x6.6x2.2 |
| 0630 | 7x6.6x2.8 |
| 0640 | 7x6.6x3.8 |
| 0650 | 7x6.6x4.8 |
| 0840 | 8.8x8x3.8 |
| 0850 | 8.8x8x4.8 |
| 1030 | 11x10x2.8 |
| 1040 | 11x10x3.8 |
| 1050 | 11x10x4.8 |
| 1240 | 13.45x12.8x3.8 |
| 1250 | 13.45x12.8x4.8 |
| 1260 | 13.45x12.8x5.8 |
| 1265 | 13.45x12.8x6.5 |
| 1770 | 17.65x17.15x6.7 |
| 2213 | 23.5x22x12.6 |

DIMENSIONS & RECOMMENDED LAND PATTERN



Recommended Land Pattern

Unit: mm

| Series | Dimensions | | | | | Recommended Land Pattern | | |
|---------|------------|------------|----------|--------|--------|--------------------------|--------|--------|
| | A | B | C | D Typ. | E Typ. | I Typ. | J Typ. | H Typ. |
| APH0412 | 4.2±0.25 | 4.4±0.35 | 1.0±0.2 | 0.8 | 2.0 | 1.5 | 2.2 | 2.5 |
| APH0420 | 4.2±0.25 | 4.4±0.35 | 1.8±0.2 | 0.8 | 2.0 | 1.5 | 2.2 | 2.5 |
| APH0518 | 5.2±0.3 | 5.4±0.35 | 1.6±0.2 | 1.3 | 2.2 | 1.9 | 2.2 | 2.5 |
| APH0530 | 5.2±0.3 | 5.4±0.35 | 2.8±0.2 | 1.3 | 2.2 | 1.9 | 2.2 | 2.5 |
| APH0615 | 6.6±0.3 | 7.0±0.3 | 1.3±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0618 | 6.6±0.3 | 7.0±0.3 | 1.6±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0620 | 6.6±0.3 | 7.0±0.3 | 1.8±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0624 | 6.6±0.3 | 7.0±0.3 | 2.2±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0630 | 6.6±0.3 | 7.0±0.3 | 2.8±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0640 | 6.6±0.3 | 7.0±0.3 | 3.8±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0650 | 6.6±0.3 | 7.0±0.3 | 4.8±0.2 | 1.7 | 3.0 | 2.35 | 3.7 | 3.5 |
| APH0840 | 8.0±0.5 | 8.8±0.5 | 3.8±0.2 | 1.8 | 3.0 | 3 | 4.0 | 4.1 |
| APH0850 | 8.0±0.5 | 8.8±0.5 | 4.8±0.2 | 1.8 | 3.0 | 3 | 4.0 | 4.1 |
| APH1030 | 10.0±0.3 | 11.0±0.5 | 2.8±0.2 | 2.0 | 3.0 | 4.1 | 5.4 | 4.1 |
| APH1040 | 10.0±0.3 | 11.0±0.5 | 3.8±0.2 | 2.0 | 3.0 | 4.1 | 5.4 | 4.1 |
| APH1050 | 10.0±0.3 | 11.0±0.5 | 4.8±0.2 | 2.0 | 3.0 | 4.1 | 5.4 | 4.1 |
| APH1240 | 12.8±0.3 | 13.45±0.35 | 3.8±0.2 | 2.5 | 4.0 | 4.1 | 6.5 | 5.5 |
| APH1250 | 12.8±0.3 | 13.45±0.35 | 4.8±0.2 | 2.5 | 4.0 | 4.1 | 6.5 | 5.5 |
| APH1260 | 12.8±0.3 | 13.45±0.35 | 5.8±0.2 | 2.5 | 4.0 | 4.1 | 6.5 | 5.5 |
| APH1265 | 12.8±0.3 | 13.45±0.35 | 6.5Max. | 2.5 | 4.0 | 4.1 | 6.5 | 5.5 |
| APH1770 | 17.15±0.3 | 17.65±0.5 | 6.7±0.3 | 2.5 | 12 | 3.5 | 11.2 | 12.8 |
| APH2213 | 22.0±0.3 | 23.5±0.5 | 12.6±0.4 | 5.0 | 19 | 5.75 | 12.5 | 19.6 |

ELECTRICAL CHARACTERISTICS

● APH0412 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | Irms | | Isat | | DCR | |
| APH0412TR15M | 0.15 | ±20% | 6.91 | 7.50 | 12.45 | 15.00 | 9 | R15 |
| APH0412TR22M | 0.22 | ±20% | 6.58 | 7.00 | 9.13 | 11.00 | 11 | R22 |
| APH0412TR33M | 0.33 | ±20% | 5.82 | 6.50 | 6.96 | 8.40 | 19 | R33 |
| APH0412TR47M | 0.47 | ±20% | 5.32 | 6.00 | 5.61 | 6.80 | 21 | R47 |
| APH0412TR68M | 0.68 | ±20% | 4.28 | 4.70 | 4.98 | 6.00 | 36 | R68 |
| APH0412TIR0M | 1 | ±20% | 3.91 | 4.50 | 4.57 | 5.50 | 47 | 1R0 |
| APH0412TIR5M | 1.5 | ±20% | 2.78 | 3.25 | 3.32 | 4.00 | 75 | 1R5 |
| APH0412T2R2M | 2.2 | ±20% | 2.28 | 2.75 | 2.49 | 3.00 | 83.5 | 2R2 |
| APH0412T3R3M | 3.3 | ±20% | 1.80 | 2.00 | 2.43 | 2.70 | 160 | 3R3 |
| APH0412T4R7M | 4.7 | ±20% | 1.50 | 1.80 | 1.86 | 2.20 | 195 | 4R7 |

● APH0420 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | Irms | | Isat | | DCR | |
| APH0420TR10M | 0.1 | ±20% | 11.47 | 13.00 | 18.26 | 22.00 | 4 | R10 |
| APH0420TR22M | 0.22 | ±20% | 8.40 | 9.50 | 10.38 | 12.50 | 6.6 | R22 |
| APH0420TR33M | 0.33 | ±20% | 8.81 | 10.00 | 9.96 | 12.00 | 11 | R33 |
| APH0420TR47M | 0.47 | ±20% | 6.78 | 7.50 | 7.89 | 9.50 | 14 | R47 |
| APH0420TR56M | 0.56 | ±20% | 6.24 | 7.00 | 7.47 | 9.00 | 16 | R56 |
| APH0420TR68M | 0.68 | ±20% | 6.28 | 7.00 | 6.64 | 8.00 | 18 | R68 |
| APH0420TIR0M | 1 | ±20% | 5.49 | 6.00 | 5.81 | 7.00 | 27 | 1R0 |
| APH0420TIR2M | 1.2 | ±20% | 5.49 | 6.00 | 5.40 | 6.50 | 27 | 1R2 |
| APH0420TIR5M | 1.5 | ±20% | 4.41 | 5.00 | 4.57 | 5.50 | 46 | 1R5 |
| APH0420T2R2M | 2.2 | ±20% | 3.91 | 4.50 | 4.15 | 5.00 | 58 | 2R2 |
| APH0420T3R3M | 3.3 | ±20% | 2.88 | 3.30 | 2.91 | 3.50 | 87 | 3R3 |
| APH0420T4R7M | 4.7 | ±20% | 2.29 | 2.80 | 2.49 | 3.00 | 105 | 4R7 |
| APH0420T6R8M | 6.8 | ±20% | 1.98 | 2.40 | 2.08 | 2.50 | 175 | 6R8 |
| APH0420T100M | 10 | ±20% | 1.35 | 1.60 | 1.66 | 2.00 | 282 | 100 |
| APH0420T220M | 22 | ±20% | 0.95 | 1.20 | 1.16 | 1.40 | 363 | 220 |

● APH0518 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | Irms | | Isat | | DCR | |
| APH0518TR47M | 0.47 | ±20% | 9.65 | 10.50 | 9.96 | 12.00 | 9 | R47 |
| APH0518TR56M | 0.56 | ±20% | 8.40 | 9.50 | 9.13 | 11.00 | 10 | R56 |

ELECTRICAL CHARACTERISTICS

● APH0518 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0518TR68M | 0.68 | ±20% | 7.85 | 8.70 | 9.48 | 10.50 | 13.8 | R68 |
| APH0518T1R0M | 1 | ±20% | 7.32 | 8.00 | 7.47 | 9.00 | 17 | 1R0 |
| APH0518T1R5M | 1.5 | ±20% | 6.74 | 7.50 | 6.64 | 8.00 | 26 | 1R5 |
| APH0518T2R2M | 2.2 | ±20% | 4.32 | 5.00 | 4.98 | 6.00 | 35 | 2R2 |
| APH0518T3R3M | 3.3 | ±20% | 3.91 | 4.50 | 3.98 | 4.80 | 58 | 3R3 |
| APH0518T4R7M | 4.7 | ±20% | 3.08 | 3.50 | 3.32 | 4.00 | 85 | 4R7 |
| APH0518T6R8M | 6.8 | ±20% | 2.46 | 2.80 | 2.82 | 3.40 | 120 | 6R8 |
| APH0518T100M | 10 | ±20% | 2.25 | 2.50 | 2.08 | 2.50 | 155 | 100 |

● APH0530 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0530TR10M | 0.1 | ±20% | 23.30 | 25.00 | 24.90 | 30.00 | 3 | R10 |
| APH0530TR20M | 0.2 | ±20% | 13.15 | 14.00 | 16.60 | 20.00 | 4.1 | R20 |
| APH0530TR33M | 0.33 | ±20% | 13.24 | 14.00 | 14.94 | 18.00 | 5.5 | R33 |
| APH0530TR47M | 0.47 | ±20% | 10.15 | 11.00 | 12.45 | 15.00 | 8.5 | R47 |
| APH0530TR68M | 0.68 | ±20% | 8.32 | 9.00 | 9.55 | 11.50 | 12 | R68 |
| APH0530TR82M | 0.82 | ±20% | 9.23 | 10.50 | 9.40 | 10.50 | 10.4 | R82 |
| APH0530T1R0M | 1 | ±20% | 7.91 | 8.50 | 8.30 | 10.00 | 14 | 1R0 |
| APH0530T1R2M | 1.2 | ±20% | 7.95 | 8.50 | 7.89 | 9.50 | 16 | 1R2 |
| APH0530T1R5M | 1.5 | ±20% | 7.69 | 8.20 | 7.47 | 9.00 | 25 | 1R5 |
| APH0530T2R2M | 2.2 | ±20% | 6.49 | 7.00 | 5.81 | 7.00 | 29 | 2R2 |
| APH0530T3R3M | 3.3 | ±20% | 5.08 | 5.50 | 4.98 | 6.00 | 38 | 3R3 |
| APH0530T4R7M | 4.7 | ±20% | 4.08 | 4.50 | 3.82 | 4.60 | 60 | 4R7 |
| APH0530T6R8M | 6.8 | ±20% | 2.99 | 3.50 | 2.99 | 3.60 | 90 | 6R8 |
| APH0530T100M | 10 | ±20% | 2.86 | 3.20 | 2.91 | 3.50 | 125 | 100 |
| APH0530T150M | 15 | ±20% | 1.63 | 1.80 | 2.03 | 2.20 | 170 | 150 |

● APH0615 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0615TR47M | 0.47 | ±20% | 9.02 | 10.00 | 14.44 | 16.00 | 8.5 | R47 |
| APH0615TR56M | 0.56 | ±20% | 8.12 | 9.00 | 12.62 | 14.00 | 11 | R56 |

ELECTRICAL CHARACTERISTICS

● APH0615 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0615TR68M | 0.68 | ±20% | 7.67 | 8.50 | 10.83 | 12.00 | 12 | R68 |
| APH0615TR82M | 0.82 | ±20% | 7.22 | 8.00 | 9.02 | 10.00 | 17 | R82 |
| APH0615T1R0M | 1 | ±20% | 5.41 | 6.00 | 8.12 | 9.00 | 21 | 1R0 |
| APH0615T2R2M | 2.2 | ±20% | 3.43 | 3.80 | 6.31 | 7.00 | 54 | 2R2 |
| APH0615T3R3M | 3.3 | ±20% | 3.16 | 3.50 | 4.96 | 5.50 | 63 | 3R3 |
| APH0615T4R7M | 4.7 | ±20% | 2.89 | 3.20 | 4.51 | 5.00 | 85 | 4R7 |
| APH0615T6R8M | 6.8 | ±20% | 2.25 | 2.50 | 3.61 | 4.00 | 135 | 6R8 |
| APH0615T100M | 10 | ±20% | 1.80 | 2.00 | 2.70 | 3.00 | 175 | 100 |
| APH0615T220M | 22 | ±20% | 1.33 | 1.40 | 2.25 | 2.50 | 510 | 220 |

● APH0618 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0618TR10M | 0.1 | ±20% | 23.30 | 25.00 | 31.54 | 38.00 | 2.3 | R10 |
| APH0618TR22M | 0.22 | ±20% | 20.30 | 22.00 | 19.92 | 24.00 | 3.5 | R22 |
| APH0618TR47M | 0.47 | ±20% | 10.23 | 11.50 | 14.94 | 18.00 | 8.4 | R47 |
| APH0618TR68M | 0.68 | ±20% | 8.57 | 9.50 | 13.70 | 16.50 | 12 | R68 |
| APH0618T1R0M | 1 | ±20% | 7.74 | 8.50 | 9.96 | 12.00 | 16 | 1R0 |
| APH0618T1R5M | 1.5 | ±20% | 7.24 | 8.00 | 7.64 | 9.20 | 26 | 1R5 |
| APH0618T2R2M | 2.2 | ±20% | 6.32 | 7.00 | 6.64 | 8.00 | 35 | 2R2 |
| APH0618T3R3M | 3.3 | ±20% | 3.91 | 4.50 | 4.98 | 6.00 | 50 | 3R3 |
| APH0618T4R7M | 4.7 | ±20% | 3.58 | 4.00 | 4.15 | 5.00 | 62 | 4R7 |
| APH0618T6R8M | 6.8 | ±20% | 2.49 | 3.00 | 3.74 | 4.50 | 110 | 6R8 |
| APH0618T8R2M | 8.2 | ±20% | 2.15 | 2.40 | 3.01 | 3.60 | 135 | 8R2 |
| APH0618T100M | 10 | ±20% | 2.00 | 2.30 | 3.32 | 4.00 | 155 | 100 |
| APH0618T220M | 22 | ±20% | 1.46 | 1.80 | 1.91 | 2.30 | 350 | 220 |

● APH0620 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0620T1R5M | 1.5 | ±20% | 7.15 | 8.00 | 10.30 | 12.00 | 26 | 1R5 |
| APH0620T4R7M | 4.7 | ±20% | 3.52 | 4.30 | 4.57 | 5.50 | 60 | 4R7 |
| APH0620T100M | 10 | ±20% | 2.31 | 2.80 | 3.34 | 4.00 | 145 | 100 |

ELECTRICAL CHARACTERISTICS

● APH0624 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0624TR22M | 0.22 | ±20% | 19.30 | 21.00 | 24.90 | 30.00 | 3 | R22 |
| APH0624TR33M | 0.33 | ±20% | 16.30 | 18.00 | 20.34 | 24.50 | 4.1 | R33 |
| APH0624TR47M | 0.47 | ±20% | 13.73 | 15.00 | 16.60 | 20.00 | 5.1 | R47 |
| APH0624TR56M | 0.56 | ±20% | 11.73 | 13.00 | 14.11 | 17.00 | 6.5 | R56 |
| APH0624TR68M | 0.68 | ±20% | 10.73 | 12.00 | 13.28 | 16.00 | 7 | R68 |
| APH0624T1R0M | 1 | ±20% | 8.15 | 9.00 | 12.45 | 15.00 | 13.5 | 1R0 |
| APH0624T1R5M | 1.5 | ±20% | 7.18 | 8.20 | 11.21 | 13.50 | 20 | 1R5 |
| APH0624T2R2M | 2.2 | ±20% | 6.32 | 7.00 | 8.30 | 10.00 | 28 | 2R2 |
| APH0624T3R3M | 3.3 | ±20% | 4.91 | 5.50 | 6.64 | 8.00 | 39 | 3R3 |
| APH0624T4R7M | 4.7 | ±20% | 4.41 | 5.00 | 5.40 | 6.50 | 50 | 4R7 |
| APH0624T6R8M | 6.8 | ±20% | 3.32 | 4.00 | 4.98 | 6.00 | 70 | 6R8 |
| APH0624T100M | 10 | ±20% | 2.51 | 3.10 | 3.32 | 4.00 | 101 | 100 |
| APH0624T150M | 15 | ±20% | 2.08 | 2.50 | 2.74 | 3.30 | 160 | 150 |
| APH0624T220M | 22 | ±20% | 1.66 | 2.00 | 2.08 | 2.50 | 230 | 220 |

● APH0630 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0630TR10M | 0.1 | ±20% | 29.10 | 32.50 | 54.05 | 60.00 | 1.7 | R10 |
| APH0630TR12M | 0.12 | ±20% | 32.90 | 38.00 | 31.50 | 40.00 | 0.75 | R12 |
| APH0630TR22M | 0.22 | ±20% | 21.45 | 24.00 | 28.22 | 34.00 | 3 | R22 |
| APH0630TR24M | 0.24 | ±20% | 19.09 | 23.00 | 23.24 | 28.00 | 3.1 | R24 |
| APH0630TR33M | 0.33 | ±20% | 19.30 | 21.00 | 20.75 | 25.00 | 3.5 | R33 |
| APH0630TR47M | 0.47 | ±20% | 16.73 | 18.00 | 16.60 | 20.00 | 4.1 | R47 |
| APH0630TR56M | 0.56 | ±20% | 15.23 | 16.50 | 14.94 | 18.00 | 4.5 | R56 |
| APH0630TR68M | 0.68 | ±20% | 14.73 | 16.00 | 14.11 | 17.00 | 5.3 | R68 |
| APH0630TR82M | 0.82 | ±20% | 12.73 | 14.00 | 13.28 | 16.00 | 6 | R82 |
| APH0630T1R0M | 1 | ±20% | 10.73 | 12.00 | 12.45 | 15.00 | 7.4 | 1R0 |
| APH0630T1R5M | 1.5 | ±20% | 10.73 | 12.00 | 9.96 | 12.00 | 12.1 | 1R5 |
| APH0630T1R8M | 1.8 | ±20% | 8.37 | 9.30 | 9.76 | 11.80 | 12.6 | 1R8 |
| APH0630T2R2M | 2.2 | ±20% | 8.65 | 9.50 | 8.30 | 10.00 | 15 | 2R2 |
| APH0630T3R3M | 3.3 | ±20% | 7.65 | 8.50 | 7.89 | 9.50 | 27 | 3R3 |
| APH0630T4R7M | 4.7 | ±20% | 5.15 | 6.00 | 7.47 | 9.00 | 33 | 4R7 |
| APH0630T5R6M | 5.6 | ±20% | 4.91 | 5.50 | 5.40 | 6.50 | 42 | 5R6 |
| APH0630T6R8M | 6.8 | ±20% | 4.32 | 5.00 | 4.98 | 6.00 | 48 | 6R8 |
| APH0630T8R2M | 8.2 | ±20% | 4.32 | 5.00 | 4.57 | 5.50 | 60 | 8R2 |
| APH0630T100M | 10 | ±20% | 3.91 | 4.50 | 4.57 | 5.50 | 68 | 100 |
| APH0630T150M | 15 | ±20% | 2.41 | 3.00 | 3.32 | 4.00 | 113 | 150 |

ELECTRICAL CHARACTERISTICS

● APH0630 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0630T220M | 22 | ±20% | 2.08 | 2.50 | 2.49 | 3.00 | 170 | 220 |
| APH0630T330M | 33 | ±20% | 1.66 | 2.00 | 2.08 | 2.50 | 270 | 330 |
| APH0630T470M | 47 | ±20% | 1.25 | 1.50 | 1.66 | 2.00 | 385 | 470 |

● APH0640 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0640TR68M | 0.68 | ±20% | 13.93 | 17.00 | 15.83 | 19.00 | 4.8 | R68 |
| APH0640T1R0M | 1 | ±20% | 11.07 | 13.50 | 13.33 | 16.00 | 6.6 | 1R0 |
| APH0640T1R5M | 1.5 | ±20% | 10.16 | 12.40 | 10.42 | 12.50 | 10 | 1R5 |
| APH0640T2R2M | 2.2 | ±20% | 8.13 | 10.00 | 9.13 | 11.00 | 14 | 2R2 |
| APH0640T3R3M | 3.3 | ±20% | 6.97 | 8.50 | 7.92 | 9.50 | 20 | 3R3 |
| APH0640T4R7M | 4.7 | ±20% | 6.08 | 6.50 | 7.47 | 9.00 | 30 | 4R7 |
| APH0640T6R8M | 6.8 | ±20% | 4.51 | 5.50 | 5.42 | 6.50 | 45 | 6R8 |
| APH0640T100M | 10 | ±20% | 3.93 | 4.80 | 5.00 | 6.00 | 65 | 100 |
| APH0640T150M | 15 | ±20% | 2.94 | 3.70 | 3.74 | 4.50 | 95 | 150 |
| APH0640T220M | 22 | ±20% | 2.70 | 3.30 | 3.33 | 4.00 | 125 | 220 |
| APH0640T330M | 33 | ±20% | 1.80 | 2.20 | 2.50 | 3.00 | 240 | 330 |
| APH0640T470M | 47 | ±20% | 1.48 | 1.80 | 2.08 | 2.50 | 320 | 470 |

● APH0650 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0650TR47M | 0.47 | ±20% | 17.45 | 20.00 | 17.43 | 21.00 | 3.9 | R47 |
| APH0650TR68M | 0.68 | ±20% | 14.80 | 16.50 | 14.94 | 18.00 | 4.5 | R68 |
| APH0650T1R0M | 1 | ±20% | 10.30 | 12.00 | 13.28 | 16.00 | 6.6 | 1R0 |
| APH0650T1R5M | 1.5 | ±20% | 8.40 | 9.50 | 10.79 | 13.00 | 10 | 1R5 |
| APH0650T2R2M | 2.2 | ±20% | 8.15 | 9.00 | 9.13 | 11.00 | 12.5 | 2R2 |
| APH0650T3R3M | 3.3 | ±20% | 7.74 | 8.50 | 8.30 | 10.00 | 22 | 3R3 |
| APH0650T4R7M | 4.7 | ±20% | 5.15 | 6.00 | 6.64 | 8.00 | 29 | 4R7 |
| APH0650T6R8M | 6.8 | ±20% | 4.27 | 5.80 | 5.23 | 6.30 | 41 | 6R8 |
| APH0650T8R2M | 8.2 | ±20% | 4.91 | 5.50 | 4.57 | 5.50 | 48 | 8R2 |
| APH0650T100M | 10 | ±20% | 3.91 | 4.50 | 4.40 | 5.30 | 60 | 100 |
| APH0650T150M | 15 | ±20% | 2.68 | 3.10 | 3.32 | 4.00 | 90 | 150 |
| APH0650T220M | 22 | ±20% | 2.09 | 2.60 | 2.91 | 3.50 | 140 | 220 |

ELECTRICAL CHARACTERISTICS

● APH0650 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0650T330M | 33 | ±20% | 1.88 | 2.30 | 2.49 | 3.00 | 190 | 330 |
| APH0650T470M | 47 | ±20% | 1.58 | 2.00 | 2.16 | 2.60 | 230 | 470 |
| APH0650T680M | 68 | ±20% | 1.48 | 1.80 | 2.05 | 2.50 | 423 | 680 |
| APH0650T101M | 100 | ±20% | 1.31 | 1.60 | 1.80 | 2.20 | 515 | 101 |

● APH0840 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0840TR22M | 0.22 | ±20% | 30.90 | 36.00 | 55.75 | 60.00 | 1.8 | R22 |
| APH0840TR33M | 0.33 | ±20% | 25.75 | 30.00 | 40.75 | 45.00 | 2.4 | R33 |
| APH0840TR47M | 0.47 | ±20% | 25.45 | 28.00 | 36.90 | 42.00 | 2.8 | R47 |
| APH0840TR56M | 0.56 | ±20% | 22.30 | 24.00 | 23.45 | 26.00 | 3.2 | R56 |
| APH0840TR68M | 0.68 | ±20% | 21.30 | 23.00 | 22.30 | 24.00 | 3.8 | R68 |
| APH0840TR82M | 0.82 | ±20% | 19.30 | 21.00 | 19.30 | 21.00 | 4.4 | R82 |
| APH0840T1R0M | 1 | ±20% | 17.30 | 19.00 | 17.30 | 19.00 | 4.62 | 1R0 |
| APH0840T1R5M | 1.5 | ±20% | 15.30 | 17.00 | 15.30 | 17.00 | 7.6 | 1R5 |
| APH0840T1R8M | 1.8 | ±20% | 12.88 | 15.00 | 13.73 | 15.00 | 11 | 1R8 |
| APH0840T2R2M | 2.2 | ±20% | 12.30 | 14.00 | 12.30 | 14.00 | 11.4 | 2R2 |
| APH0840T3R3M | 3.3 | ±20% | 10.30 | 12.00 | 11.23 | 12.50 | 15 | 3R3 |
| APH0840T4R7M | 4.7 | ±20% | 8.65 | 9.50 | 10.65 | 11.50 | 26.5 | 4R7 |
| APH0840T5R6M | 5.6 | ±20% | 8.15 | 9.00 | 10.15 | 11.00 | 30 | 5R6 |
| APH0840T6R8M | 6.8 | ±20% | 7.15 | 8.00 | 8.15 | 9.00 | 36.8 | 6R8 |
| APH0840T8R2M | 8.2 | ±20% | 6.15 | 7.00 | 7.85 | 8.70 | 46 | 8R2 |
| APH0840T100M | 10 | ±20% | 5.65 | 6.50 | 7.15 | 8.00 | 59 | 100 |
| APH0840T150M | 15 | ±20% | 4.89 | 5.40 | 4.99 | 5.50 | 71 | 150 |
| APH0840T220M | 22 | ±20% | 4.29 | 4.80 | 4.58 | 5.00 | 113 | 220 |
| APH0840T330M | 33 | ±20% | 3.08 | 3.50 | 3.33 | 3.50 | 156 | 330 |
| APH0840T470M | 47 | ±20% | 2.56 | 2.90 | 2.93 | 3.10 | 225 | 470 |

● APH0850 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0850T2R2M | 2.2 | ±20% | 11.05 | 13.00 | 12.75 | 15.00 | 10 | 2R2 |
| APH0850T3R3M | 3.3 | ±20% | 9.35 | 11.00 | 11.90 | 14.00 | 15 | 3R3 |
| APH0850T4R7M | 4.7 | ±20% | 6.80 | 8.00 | 11.05 | 13.00 | 22 | 4R7 |
| APH0850T6R8M | 6.8 | ±20% | 6.38 | 7.50 | 8.93 | 10.50 | 28 | 6R8 |
| APH0850T100M | 10 | ±20% | 5.10 | 6.00 | 7.65 | 9.00 | 38 | 100 |

ELECTRICAL CHARACTERISTICS

● APH0850 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH0850T150M | 15 | ±20% | 4.68 | 5.50 | 5.95 | 7.00 | 52 | 150 |
| APH0850T220M | 22 | ±20% | 3.57 | 4.20 | 5.10 | 6.00 | 82 | 220 |
| APH0850T330M | 33 | ±20% | 2.98 | 3.50 | 4.68 | 5.50 | 140 | 330 |
| APH0850T470M | 47 | ±20% | 1.87 | 2.20 | 3.23 | 3.80 | 190 | 470 |
| APH0850T560M | 56 | ±20% | 2.13 | 2.50 | 2.98 | 3.50 | 185 | 560 |
| APH0850T680M | 68 | ±20% | 1.70 | 2.00 | 2.98 | 3.50 | 300 | 680 |
| APH0850T101M | 100 | ±20% | 1.28 | 1.50 | 2.13 | 2.50 | 400 | 101 |

● APH1030 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1030TR22M | 0.22 | ±20% | 29.77 | 33.00 | 45.10 | 50.00 | 1.2 | R22 |
| APH1030TR33M | 0.33 | ±20% | 20.75 | 23.00 | 28.86 | 32.00 | 1.6 | R33 |
| APH1030TR36M | 0.36 | ±20% | 20.75 | 23.00 | 25.28 | 28.00 | 1.6 | R36 |
| APH1030TR47M | 0.47 | ±20% | 19.85 | 22.00 | 23.45 | 26.00 | 2.5 | R47 |
| APH1030TR82M | 0.82 | ±20% | 16.24 | 18.00 | 20.75 | 23.00 | 3.7 | R82 |
| APH1030T1R0M | 1 | ±20% | 13.53 | 15.00 | 18.94 | 21.00 | 6 | 1R0 |
| APH1030T1R5M | 1.5 | ±20% | 11.73 | 13.00 | 18.04 | 20.00 | 7.5 | 1R5 |
| APH1030T2R2M | 2.2 | ±20% | 9.92 | 11.00 | 12.62 | 14.00 | 9 | 2R2 |
| APH1030T3R3M | 3.3 | ±20% | 8.12 | 9.00 | 10.82 | 12.00 | 16 | 3R3 |
| APH1030T4R7M | 4.7 | ±20% | 6.31 | 7.00 | 9.01 | 10.00 | 22.5 | 4R7 |
| APH1030T8R2M | 8.2 | ±20% | 4.51 | 5.00 | 6.32 | 7.00 | 45 | 8R2 |
| APH1030T100M | 10 | ±20% | 4.06 | 4.50 | 5.86 | 6.50 | 55 | 100 |
| APH1030T330M | 33 | ±20% | 2.35 | 2.60 | 3.60 | 4.00 | 160 | 330 |

● APH1040 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1040TR13M | 0.13 | ±20% | 64.35 | 72.00 | 67.35 | 92.00 | 0.52 | R13 |
| APH1040TR15M | 0.15 | ±20% | 40.75 | 45.00 | 62.25 | 75.00 | 0.65 | R15 |
| APH1040TR22M | 0.22 | ±20% | 30.75 | 35.00 | 49.80 | 60.00 | 1 | R22 |
| APH1040TR30M | 0.3 | ±20% | 30.75 | 35.00 | 37.35 | 45.00 | 1.1 | R30 |
| APH1040TR36M | 0.36 | ±20% | 25.75 | 30.00 | 37.35 | 45.00 | 1.2 | R36 |
| APH1040TR45M | 0.45 | ±20% | 25.75 | 30.00 | 35.35 | 43.00 | 1.5 | R45 |
| APH1040TR47M | 0.47 | ±20% | 25.75 | 30.00 | 33.20 | 40.00 | 1.7 | R47 |

ELECTRICAL CHARACTERISTICS

● APH1040 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1040TR56M | 0.56 | ±20% | 20.75 | 25.00 | 27.39 | 33.00 | 1.8 | R56 |
| APH1040TR68M | 0.68 | ±20% | 19.60 | 23.00 | 24.90 | 30.00 | 2.4 | R68 |
| APH1040TR80M | 0.8 | ±20% | 19.60 | 23.00 | 24.07 | 29.00 | 2.7 | R80 |
| APH1040T1R0M | 1 | ±20% | 16.45 | 19.00 | 23.24 | 28.00 | 4.3 | 1R0 |
| APH1040T1R5M | 1.5 | ±20% | 14.30 | 16.00 | 19.92 | 24.00 | 5.5 | 1R5 |
| APH1040T2R2M | 2.2 | ±20% | 10.30 | 12.00 | 13.70 | 16.50 | 8 | 2R2 |
| APH1040T3R3M | 3.3 | ±20% | 9.73 | 11.00 | 13.28 | 16.00 | 11.8 | 3R3 |
| APH1040T4R7M | 4.7 | ±20% | 7.73 | 9.00 | 10.79 | 13.00 | 20 | 4R7 |
| APH1040T6R8M | 6.8 | ±20% | 7.23 | 8.50 | 9.96 | 12.00 | 25 | 6R8 |
| APH1040T8R2M | 8.2 | ±20% | 6.98 | 8.00 | 7.47 | 9.00 | 27 | 8R2 |
| APH1040T100M | 10 | ±20% | 7.04 | 7.80 | 7.06 | 8.50 | 30 | 100 |
| APH1040T150M | 15 | ±20% | 5.74 | 6.50 | 5.81 | 7.00 | 45 | 150 |
| APH1040T220M | 22 | ±20% | 4.32 | 5.00 | 4.57 | 5.50 | 66 | 220 |
| APH1040T330M | 33 | ±20% | 3.89 | 4.40 | 3.98 | 4.80 | 92 | 330 |
| APH1040T470M | 47 | ±20% | 2.88 | 3.30 | 3.16 | 3.50 | 145 | 470 |
| APH1040T680M | 68 | ±20% | 2.08 | 2.50 | 2.49 | 3.00 | 195 | 680 |
| APH1040T820M | 82 | ±20% | 2.13 | 2.30 | 2.38 | 2.80 | 285 | 820 |
| APH1040T101M | 100 | ±20% | 1.83 | 2.00 | 2.13 | 2.30 | 340 | 101 |

● APH1050 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1050TR22M | 0.22 | ±20% | 33.18 | 37.00 | 58.63 | 65.00 | 0.8 | R22 |
| APH1050TR68M | 0.68 | ±20% | 21.30 | 23.00 | 34.45 | 37.00 | 1.95 | R68 |
| APH1050T1R0M | 1 | ±20% | 20.71 | 23.00 | 28.30 | 30.00 | 3 | 1R0 |
| APH1050T1R5M | 1.5 | ±20% | 18.88 | 21.00 | 22.45 | 25.00 | 3.8 | 1R5 |
| APH1050T2R2M | 2.2 | ±20% | 13.47 | 15.00 | 17.13 | 19.00 | 6 | 2R2 |
| APH1050T3R3M | 3.3 | ±20% | 11.73 | 13.00 | 14.30 | 16.00 | 10 | 3R3 |
| APH1050T4R7M | 4.7 | ±20% | 9.90 | 11.00 | 13.47 | 15.00 | 14 | 4R7 |
| APH1050T5R6M | 5.6 | ±20% | 8.65 | 9.50 | 12.56 | 14.00 | 17 | 5R6 |
| APH1050T6R8M | 6.8 | ±20% | 8.15 | 9.00 | 12.56 | 14.00 | 18.5 | 6R8 |
| APH1050T100M | 10 | ±20% | 7.15 | 8.00 | 8.98 | 10.00 | 28 | 100 |
| APH1050T150M | 15 | ±20% | 5.82 | 6.50 | 6.65 | 7.50 | 42 | 150 |
| APH1050T220M | 22 | ±20% | 5.08 | 5.50 | 5.41 | 6.00 | 50 | 220 |
| APH1050T330M | 33 | ±20% | 4.29 | 4.80 | 4.69 | 5.20 | 86 | 330 |
| APH1050T470M | 47 | ±20% | 3.28 | 3.70 | 4.08 | 4.50 | 127 | 470 |
| APH1050T680M | 68 | ±20% | 2.45 | 2.70 | 2.86 | 3.20 | 185 | 680 |

ELECTRICAL CHARACTERISTICS

● APH1050 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1050T820M | 82 | ±20% | 1.75 | 2.00 | 3.08 | 3.50 | 280 | 820 |
| APH1050T101M | 100 | ±20% | 1.85 | 2.10 | 2.55 | 2.80 | 290 | 101 |

● APH1240 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1240TR22M | 0.22 | ±20% | 38.60 | 42.00 | 41.50 | 50.00 | 0.9 | R22 |
| APH1240TR47M | 0.47 | ±20% | 29.60 | 33.00 | 39.84 | 48.00 | 2 | R47 |
| APH1240TR68M | 0.68 | ±20% | 24.60 | 28.00 | 39.01 | 47.00 | 3.5 | R68 |
| APH1240TR82M | 0.82 | ±20% | 24.60 | 28.00 | 33.20 | 40.00 | 4.5 | R82 |
| APH1240T1R0M | 1 | ±20% | 20.60 | 24.00 | 29.05 | 35.00 | 7.5 | 1R0 |
| APH1240T1R5M | 1.5 | ±20% | 17.45 | 20.00 | 25.32 | 30.50 | 9.5 | 1R5 |
| APH1240T2R2M | 2.2 | ±20% | 15.45 | 18.00 | 21.58 | 26.00 | 11.5 | 2R2 |
| APH1240T3R3M | 3.3 | ±20% | 13.30 | 15.00 | 17.43 | 21.00 | 13 | 3R3 |
| APH1240T4R7M | 4.7 | ±20% | 11.30 | 13.00 | 14.94 | 18.00 | 14.5 | 4R7 |
| APH1240T6R8M | 6.8 | ±20% | 8.15 | 9.00 | 11.62 | 14.00 | 20 | 6R8 |
| APH1240T100M | 10 | ±20% | 7.15 | 8.00 | 8.30 | 10.00 | 25 | 100 |
| APH1240T150M | 15 | ±20% | 5.91 | 6.50 | 6.23 | 7.50 | 39 | 150 |
| APH1240T220M | 22 | ±20% | 3.91 | 4.50 | 4.98 | 6.00 | 51 | 220 |

● APH1250 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1250TR22M | 0.22 | ±20% | 45.75 | 50.00 | 62.25 | 75.00 | 0.7 | R22 |
| APH1250TR36M | 0.36 | ±20% | 37.75 | 42.00 | 41.50 | 50.00 | 0.85 | R36 |
| APH1250TR50M | 0.5 | ±20% | 33.75 | 38.00 | 39.84 | 48.00 | 1.15 | R50 |
| APH1250TR68M | 0.68 | ±20% | 29.60 | 33.00 | 38.18 | 46.00 | 1.55 | R68 |
| APH1250TR82M | 0.82 | ±20% | 26.60 | 30.00 | 32.37 | 39.00 | 1.67 | R82 |
| APH1250T1R0M | 1 | ±20% | 22.60 | 26.00 | 29.05 | 35.00 | 2.2 | 1R0 |
| APH1250T1R5M | 1.5 | ±20% | 19.60 | 23.00 | 27.39 | 33.00 | 3.2 | 1R5 |
| APH1250T2R2M | 2.2 | ±20% | 13.30 | 15.00 | 19.92 | 24.00 | 5 | 2R2 |
| APH1250T3R3M | 3.3 | ±20% | 12.30 | 14.00 | 18.26 | 22.00 | 7 | 3R3 |
| APH1250T4R7M | 4.7 | ±20% | 11.30 | 13.00 | 16.60 | 20.00 | 11 | 4R7 |
| APH1250T6R8M | 6.8 | ±20% | 10.30 | 12.00 | 13.28 | 16.00 | 18 | 6R8 |
| APH1250T100M | 10 | ±20% | 8.15 | 9.00 | 9.96 | 12.00 | 22 | 100 |

ELECTRICAL CHARACTERISTICS

● APH1250 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1250T150M | 15 | ±20% | 7.15 | 8.00 | 8.30 | 10.00 | 30 | 150 |
| APH1250T220M | 22 | ±20% | 3.91 | 4.50 | 5.40 | 6.50 | 58 | 220 |
| APH1250T330M | 33 | ±20% | 2.91 | 3.50 | 4.98 | 6.00 | 84 | 330 |
| APH1250T470M | 47 | ±20% | 2.66 | 3.00 | 4.15 | 5.00 | 130 | 470 |
| APH1250T680M | 68 | ±20% | 2.05 | 2.40 | 3.50 | 4.10 | 183 | 680 |

● APH1260 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1260T1R5M | 1.5 | ±20% | 23.60 | 27.00 | 27.45 | 30.00 | 2.9 | 1R5 |
| APH1260T2R2M | 2.2 | ±20% | 18.60 | 22.00 | 24.60 | 28.00 | 4.2 | 2R2 |
| APH1260T3R3M | 3.3 | ±20% | 14.45 | 17.00 | 21.60 | 25.00 | 6.8 | 3R3 |
| APH1260T4R7M | 4.7 | ±20% | 12.45 | 15.00 | 19.92 | 24.00 | 9 | 4R7 |
| APH1260T5R6M | 5.6 | ±20% | 11.30 | 13.00 | 18.68 | 22.50 | 11 | 5R6 |
| APH1260T6R8M | 6.8 | ±20% | 10.30 | 12.00 | 15.77 | 19.00 | 13.5 | 6R8 |
| APH1260T8R2M | 8.2 | ±20% | 9.30 | 11.00 | 11.21 | 13.50 | 16 | 8R2 |
| APH1260T100M | 10 | ±20% | 8.73 | 10.00 | 11.31 | 12.50 | 20.7 | 100 |
| APH1260T120M | 12 | ±20% | 7.98 | 9.00 | 8.30 | 10.00 | 23 | 120 |
| APH1260T150M | 15 | ±20% | 7.65 | 8.50 | 7.47 | 9.00 | 29 | 150 |
| APH1260T180M | 18 | ±20% | 6.65 | 7.50 | 6.64 | 8.00 | 35 | 180 |
| APH1260T220M | 22 | ±20% | 6.15 | 7.00 | 6.23 | 7.50 | 39.5 | 220 |
| APH1260T270M | 27 | ±20% | 5.15 | 6.00 | 5.40 | 6.50 | 56 | 270 |
| APH1260T330M | 33 | ±20% | 4.91 | 5.50 | 4.98 | 6.00 | 75 | 330 |
| APH1260T470M | 47 | ±20% | 4.32 | 5.00 | 4.57 | 5.50 | 90 | 470 |
| APH1260T680M | 68 | ±20% | 3.32 | 4.00 | 3.74 | 4.50 | 140 | 680 |
| APH1260T101M | 100 | ±20% | 2.58 | 3.00 | 2.91 | 3.50 | 200 | 101 |
| APH1260T121M | 120 | ±20% | 1.75 | 2.00 | 2.66 | 3.20 | 235 | 121 |
| APH1260T151M | 150 | ±20% | 1.25 | 1.50 | 2.24 | 2.70 | 350 | 151 |

● APH1265 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μ H | - | A | | A | | m Ω | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1265TR33M | 0.33 | ±20% | 38.50 | 43.00 | 47.50 | 57.00 | 0.84 | R33 |
| APH1265TR47M | 0.47 | ±20% | 34.80 | 39.00 | 43.30 | 52.00 | 1.1 | R47 |
| APH1265TR68M | 0.68 | ±20% | 30.10 | 34.00 | 39.20 | 47.00 | 1.5 | R68 |

ELECTRICAL CHARACTERISTICS

● APH1265 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1265TR82M | 0.82 | ±20% | 27.50 | 31.00 | 35.00 | 42.00 | 1.65 | R82 |
| APH1265T1R0M | 1 | ±20% | 24.80 | 29.00 | 32.10 | 38.50 | 2.1 | 1R0 |
| APH1265T1R5M | 1.5 | ±20% | 23.50 | 27.50 | 28.30 | 34.00 | 2.9 | 1R5 |
| APH1265T2R2M | 2.2 | ±20% | 19.20 | 22.50 | 25.80 | 31.00 | 4.2 | 2R2 |
| APH1265T3R3M | 3.3 | ±20% | 16.70 | 19.50 | 24.20 | 29.00 | 6.4 | 3R3 |
| APH1265T4R7M | 4.7 | ±20% | 13.70 | 16.00 | 20.00 | 24.00 | 8.5 | 4R7 |
| APH1265T5R6M | 5.6 | ±20% | 12.00 | 14.00 | 18.80 | 22.50 | 10.5 | 5R6 |
| APH1265T6R8M | 6.8 | ±20% | 11.10 | 13.00 | 15.80 | 19.00 | 13 | 6R8 |
| APH1265T8R2M | 8.2 | ±20% | 10.30 | 12.00 | 13.30 | 16.00 | 14 | 8R2 |
| APH1265T100M | 10 | ±20% | 9.40 | 11.00 | 12.50 | 15.00 | 16.5 | 100 |
| APH1265T150M | 15 | ±20% | 8.10 | 9.50 | 9.20 | 11.00 | 37 | 150 |
| APH1265T220M | 22 | ±20% | 6.80 | 8.00 | 7.50 | 9.00 | 44 | 220 |
| APH1265T330M | 33 | ±20% | 5.60 | 6.50 | 6.70 | 8.00 | 65 | 330 |
| APH1265T470M | 47 | ±20% | 4.70 | 5.50 | 5.70 | 6.80 | 90 | 470 |
| APH1265T680M | 68 | ±20% | 4.10 | 4.80 | 4.30 | 5.20 | 120 | 680 |
| APH1265T820M | 82 | ±20% | 3.40 | 4.00 | 3.80 | 4.50 | 135 | 820 |
| APH1265T101M | 100 | ±20% | 3.00 | 3.50 | 3.30 | 4.00 | 170 | 101 |
| APH1265T151M | 150 | ±20% | 1.50 | 1.70 | 2.30 | 2.80 | 257 | 151 |

● APH1770 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH1770T1R0M | 1 | ±20% | 26.50 | 31.00 | 34.80 | 40.00 | 2 | 1R0 |
| APH1770T2R2M | 2.2 | ±20% | 24.80 | 29.00 | 28.30 | 34.00 | 2.5 | 2R2 |
| APH1770T3R3M | 3.3 | ±20% | 20.50 | 24.00 | 25.00 | 30.00 | 3.95 | 3R3 |
| APH1770T4R7M | 4.7 | ±20% | 17.90 | 21.00 | 20.00 | 24.00 | 4.75 | 4R7 |
| APH1770T6R8M | 6.8 | ±20% | 14.50 | 17.00 | 18.30 | 22.00 | 7.5 | 6R8 |
| APH1770T8R2M | 8.2 | ±20% | 11.10 | 13.00 | 16.70 | 20.00 | 8.7 | 8R2 |
| APH1770T100M | 10 | ±20% | 10.30 | 12.00 | 15.80 | 19.00 | 9.9 | 100 |
| APH1770T150M | 15 | ±20% | 9.40 | 11.00 | 12.10 | 14.50 | 17 | 150 |
| APH1770T220M | 22 | ±20% | 7.30 | 8.50 | 9.60 | 11.50 | 23 | 220 |
| APH1770T330M | 33 | ±20% | 6.80 | 8.00 | 8.30 | 10.00 | 37 | 330 |
| APH1770T470M | 47 | ±20% | 5.10 | 6.00 | 6.30 | 7.50 | 47 | 470 |
| APH1770T680M | 68 | ±20% | 4.40 | 5.20 | 5.40 | 6.50 | 85 | 680 |
| APH1770T101M | 100 | ±20% | 3.20 | 3.70 | 4.20 | 5.00 | 130 | 101 |

ELECTRICAL CHARACTERISTICS

● APH2213 Series

| Part Number | Inductance | Inductance Tolerance | Heat Rating Current | | Saturation Current | | DC Resistance | Marking |
|--------------|------------|----------------------|---------------------|-------|--------------------|-------|---------------|---------|
| | @100kHz,1V | | Max. | Typ. | Max. | Typ. | Typ. | |
| Units | μH | - | A | | A | | mΩ | |
| Symbol | L | - | I _{rms} | | I _{sat} | | DCR | |
| APH2213T2R2M | 2.2 | ±20% | 52.00 | 52.90 | 43.75 | 48.00 | 1.25 | 2R2 |
| APH2213T4R7M | 4.7 | ±20% | 44.00 | 44.45 | 34.60 | 38.00 | 2.2 | 4R7 |
| APH2213T100M | 10 | ±20% | 30.00 | 30.45 | 21.20 | 28.00 | 4.15 | 100 |
| APH2213T150M | 15 | ±20% | 23.00 | 23.45 | 18.75 | 23.00 | 6.12 | 150 |
| APH2213T680M | 68 | ±20% | 12.00 | 12.30 | 9.45 | 12.00 | 29.5 | 680 |

△All test data is referenced to 20°C ambient;

△Rated current: I_{sat} or I_{rms}, whichever is smaller;

△I_{sat}: DC current at which the inductance drops approximate 30% from its value without current;

△The DC Resistance maximum from typical +30%;

△I_{rms}: DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient.

Note:

This series product is not applies in automotive or related products. Otherwise, we will shall not bear than the resulting all the problems of quality and responsibility.

Please be sure to request approval specifications that provide further details of the products. Kindly not that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without APV approval.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [APV](#) manufacturer:

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)