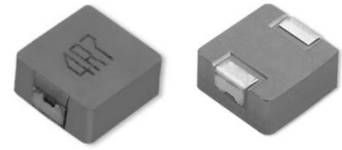


FEATURES

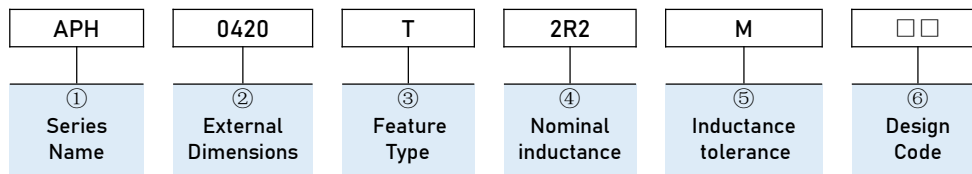
- Lowest molded height in this package Footprint.
- Shielded construction.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Encapsulated body offers improved environmental protection and moisture resistance.
- Corrosion resistant package.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

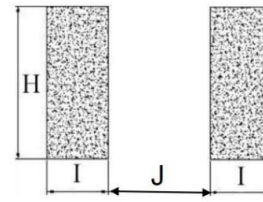
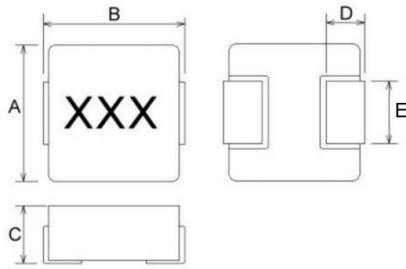
PART NUMBERING



| 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 | μH | - | A | | A | | mΩ | |
| 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 | μH | - | A | | A | | mΩ | |
| 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 | μH | - | A | | A | | mΩ | |
| 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 | - | Irms | | Isat | | 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 | - | Irms | | Isat | | 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 | - | Irms | | Isat | | 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 | μ H | - | A | | A | | m Ω | |
| 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 | μ H | - | A | | A | | m Ω | |
| 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.

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