



SMD POWER INDUCTORS / ATNR M Type Series

• Features

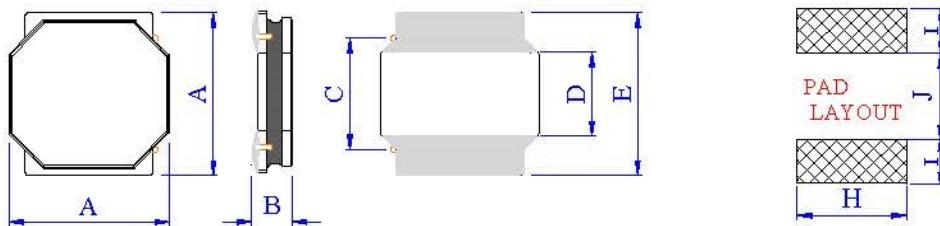
1. Small and Low profile inductor.
2. It corresponds to High current.
3. Simple and original magnetic shield structure.
4. Durable structure against dropping impact.

• Applications

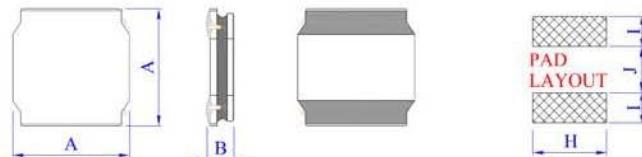
1. LCD displays
2. STB
3. LCD Moniter / TV
4. Smart meter
5. Tablet PC and other Protable devices
6. DC/DC converters



• Shape & Dimensions



| TYPE | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | H (Ref.) | I (Ref.) | J (Ref.) |
|-----------|---------|--------------|-----------|----------|----------|----------|----------|----------|
| ATNR3010M | 3.0±0.2 | 0.9±0.1 | 2.0±0.2 | 1.0±0.2 | 3.0±0.2 | 2.7 | 0.8 | 1.4 |
| ATNR3012M | 3.0±0.2 | 1.1±0.1 | 2.0±0.2 | 1.0±0.2 | 3.0±0.2 | 2.7 | 0.8 | 1.4 |
| ATNR3015M | 3.0±0.2 | 1.5 MAX. | 2.0±0.2 | 1.0±0.2 | 3.0±0.2 | 2.7 | 0.8 | 1.4 |
| ATNR4010M | 4.0±0.2 | 0.9±0.1 | 2.7±0.2 | 1.4±0.2 | 4.0±0.2 | 3.7 | 1.2 | 1.6 |
| ATNR4012M | 4.0±0.2 | 1.1±0.1 | 2.7±0.2 | 1.4±0.2 | 4.0±0.2 | 3.7 | 1.2 | 1.6 |
| ATNR4018M | 4.0±0.2 | 1.8 MAX. | 2.7±0.2 | 1.4±0.2 | 4.0±0.2 | 3.7 | 1.2 | 1.6 |
| ATNR5010M | 5.0±0.2 | 0.9±0.1 | 3.5±0.2 | 2.0±0.2 | 5.0±0.2 | 4.7 | 1.4 | 2.4 |
| ATNR5040M | 5.0±0.3 | 4.2 MAX. | 3.5 REF. | 2.0 REF. | 5.0 REF. | 3.7 | 1.2 | 1.6 |
| ATNR6010M | 6.0±0.2 | 0.9+0.2/-0.1 | 4.325±0.2 | 2.65±0.2 | 6.0±0.2 | 5.7 | 1.6 | 3.1 |
| ATNR6012M | 6.0±0.2 | 1.1±0.1 | 4.325±0.2 | 2.65±0.2 | 6.0±0.2 | 5.7 | 1.6 | 3.1 |
| ATNR6020M | 6.0±0.2 | 2.0 MAX. | 4.325±0.2 | 2.65±0.2 | 6.0±0.2 | 5.7 | 1.6 | 3.1 |
| ATNR6045M | 6.0±0.2 | 4.5 MAX. | 4.325±0.2 | 2.65±0.2 | 6.0±0.2 | 5.7 | 1.6 | 3.1 |



| TYPE | A (mm) | B (mm) | H (Ref.) | I (Ref.) | J (Ref.) |
|-----------|-----------|----------|----------|----------|----------|
| ATNR4030M | 4.0 ± 0.3 | 3.1 MAX. | 4.0 | 1.35 | 1.3 |



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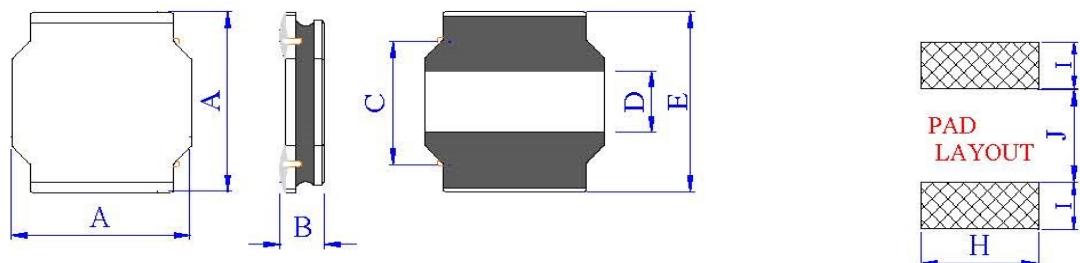
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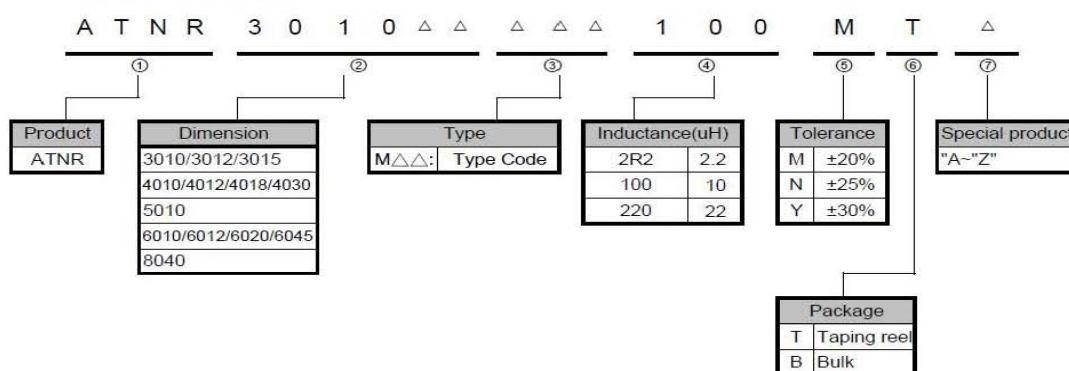


| TYPE | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | H (Ref.) | I (Ref.) | J (Ref.) |
|-----------|-----------|------------------------|---------|---------|---------|----------|----------|----------|
| ATNR8040M | 8.0 ± 0.2 | * ¹ 4.2 MAX | 5.6±0.3 | 3.1±0.3 | 8.0±0.2 | 7.7 | 1.8 | 3.8 |
| ATNR8040M | 8.0 ± 0.2 | * ² 4.0 MAX | 5.6±0.3 | 3.1±0.3 | 8.0±0.2 | 7.7 | 1.8 | 3.8 |

*1) 0R9~8R2=4.2 MAX.

*2) 100~101=4.0 MAX.

■ PRODUCT IDENTIFICATION



◆ ATNR3010M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR3010M1R0□T | 1.0 | Y | 100 | 78 | 1.30 | 1.40 |
| ATNR3010M1R5□T | 1.5 | Y | 100 | 96 | 1.20 | 1.30 |
| ATNR3010M2R2□T | 2.2 | Y | 100 | 114 | 1.10 | 1.10 |
| ATNR3010M3R3□T | 3.3 | Y | 100 | 168 | 0.87 | 0.94 |
| ATNR3010M4R7□T | 4.7 | Y | 100 | 228 | 0.75 | 0.78 |
| ATNR3010M6R8□T | 6.8 | M,N | 100 | 360 | 0.61 | 0.63 |
| ATNR3010M100□T | 10 | M,N | 100 | 540 | 0.50 | 0.51 |
| ATNR3010M150□T | 15 | M,N | 100 | 888 | 0.40 | 0.40 |
| ATNR3010M220□T | 22 | M,N | 100 | 1236 | 0.35 | 0.35 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$. (Ta=25°C)

◆ ATNR3012M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR3012M1R0□T | 1.0 | Y | 100 | 60 | 1.50 | 1.49 |
| ATNR3012M1R5□T | 1.5 | Y | 100 | 72 | 1.36 | 1.40 |
| ATNR3012M2R2□T | 2.2 | Y | 100 | 96 | 1.10 | 1.20 |
| ATNR3012M3R3□T | 3.3 | Y | 100 | 120 | 0.91 | 1.05 |
| ATNR3012M4R7□T | 4.7 | Y | 100 | 156 | 0.77 | 0.98 |
| ATNR3012M6R8□T | 6.8 | M,N | 100 | 228 | 0.65 | 0.74 |
| ATNR3012M100□T | 10 | M,N | 100 | 348 | 0.54 | 0.63 |
| ATNR3012M150□T | 15 | M,N | 100 | 540 | 0.44 | 0.48 |
| ATNR3012M220□T | 22 | M,N | 100 | 756 | 0.37 | 0.42 |
| ATNR3012M330□T | 33 | M,N | 100 | 1236 | 0.31 | 0.33 |
| ATNR3012M470□T | 47 | M,N | 100 | 1740 | 0.25 | 0.28 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$. (Ta=25°C)

◆ ATNR3015M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-----------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR3015M1R0□T | 1.0 | Y | 100 | 36 | 2.10 | 2.10 |
| ATNR3015M1R5□T | 1.5 | Y | 100 | 48 | 1.80 | 1.82 |
| ATNR3015M2R2□T | 2.2 | Y | 100 | 72 | 1.48 | 1.50 |
| ATNR3015M3R3□T | 3.3 | Y | 100 | 96 | 1.21 | 1.23 |
| ATNR3015M4R7□T | 4.7 | Y | 100 | 144 | 1.02 | 1.04 |
| ATNR3015M6R8□T | 6.8 | M,N | 100 | 192 | 0.87 | 0.88 |
| ATNR3015M100□T | 10 | M,N | 100 | 276 | 0.70 | 0.71 |
| ATNR3015M150□T | 15 | M,N | 100 | 432 | 0.56 | 0.56 |
| ATNR3015M220□T | 22 | M,N | 100 | 624 | 0.47 | 0.47 |
| ATNR3015M330□T | 33 | M,N | 100 | 1008 | 0.39 | 0.37 |
| ATNR3015M470□T | 47 | M,N | 100 | 1608 | 0.32 | 0.30 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR4010M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-----------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR4010M1R0□T | 1.0 | Y | 100 | 120 | 1.80 | 1.05 |
| ATNR4010M2R2□T | 2.2 | Y | 100 | 180 | 1.15 | 0.89 |
| ATNR4010M3R3□T | 3.3 | Y | 100 | 216 | 1.10 | 0.82 |
| ATNR4010M4R7□T | 4.7 | Y | 100 | 252 | 0.90 | 0.75 |
| ATNR4010M6R8□T | 6.8 | M,N | 100 | 360 | 0.74 | 0.62 |
| ATNR4010M100□T | 10 | M,N | 100 | 456 | 0.56 | 0.60 |
| ATNR4010M150□T | 15 | M,N | 100 | 612 | 0.47 | 0.51 |
| ATNR4010M220□T | 22 | M,N | 100 | 1044 | 0.36 | 0.40 |
| ATNR4010M330□T | 33 | M,N | 100 | 1848 | 0.28 | 0.30 |
| ATNR4010M470□T | 47 | M,N | 100 | 2172 | 0.24 | 0.28 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR4012M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR4012M1R0□T | 1.0 | Y | 100 | 72 | 2.50 | 1.50 |
| ATNR4012M2R2□T | 2.2 | Y | 100 | 108 | 1.65 | 1.20 |
| ATNR4012M3R3□T | 3.3 | Y | 100 | 156 | 1.20 | 0.98 |
| ATNR4012M4R7□T | 4.7 | Y | 100 | 168 | 1.05 | 0.96 |
| ATNR4012M6R8□T | 6.8 | M,N | 100 | 216 | 0.90 | 0.84 |
| ATNR4012M100□T | 10 | M,N | 100 | 288 | 0.74 | 0.77 |
| ATNR4012M150□T | 15 | M,N | 100 | 480 | 0.56 | 0.60 |
| ATNR4012M220□T | 22 | M,N | 100 | 576 | 0.51 | 0.54 |
| ATNR4012M330□T | 33 | M,N | 100 | 972 | 0.40 | 0.42 |
| ATNR4012M470□T | 47 | M,N | 100 | 1200 | 0.35 | 0.37 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR4018M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR4018M1R0□T | 1.0 | Y | 100 | 36 | 4.00 | 1.83 |
| ATNR4018M2R2□T | 2.2 | Y | 100 | 72 | 2.70 | 1.44 |
| ATNR4018M3R3□T | 3.3 | Y | 100 | 84 | 2.00 | 1.23 |
| ATNR4018M4R7□T | 4.7 | Y | 100 | 108 | 1.70 | 1.20 |
| ATNR4018M6R8□T | 6.8 | M,N | 100 | 132 | 1.45 | 1.06 |
| ATNR4018M100□T | 10 | M,N | 100 | 216 | 1.20 | 0.84 |
| ATNR4018M150□T | 15 | M,N | 100 | 300 | 0.94 | 0.65 |
| ATNR4018M220□T | 22 | M,N | 100 | 432 | 0.80 | 0.59 |
| ATNR4018M330□T | 33 | M,N | 100 | 636 | 0.65 | 0.49 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR4030M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR4030M1R0□T | 1.0 | Y | 100 | 30 | 3.00 | 3.00 |
| ATNR4030M2R2□T | 2.2 | Y | 100 | 39 | 4.90 | 2.95 |
| ATNR4030M3R3□T | 3.3 | Y | 100 | 52 | 3.30 | 2.40 |
| ATNR4030M4R7□T | 4.7 | Y | 100 | 78 | 2.90 | 2.00 |
| ATNR4030M100□T | 10 | M,N | 100 | 140 | 1.85 | 1.50 |
| ATNR4030M150□T | 15 | M,N | 100 | 250 | 1.85 | 1.10 |
| ATNR4030M220□T | 22 | M,N | 100 | 293 | 1.30 | 1.00 |
| ATNR4030M330□T | 33 | M,N | 100 | 330±30% | 1.00 | 0.80 |
| ATNR4030M470□T | 47 | M,N | 100 | 845 | 0.95(≤35%) | 0.72 |
| ATNR4030M101□T | 100 | M,N | 100 | 1650 | 0.40 | 0.40 |

NOTE :

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* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR5010M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR5010M1R0□T | 1.0 | Y | 100 | 84 | 2.35 | 1.75 |
| ATNR5010M2R2□T | 2.2 | Y | 100 | 126 | 1.50 | 1.40 |
| ATNR5010M3R3□T | 3.3 | Y | 100 | 150 | 1.40 | 1.25 |
| ATNR5010M4R7□T | 4.7 | Y | 100 | 174 | 1.20 | 1.15 |
| ATNR5010M6R8□T | 6.8 | M,N | 100 | 222 | 1.00 | 1.00 |
| ATNR5010M100□T | 10 | M,N | 100 | 300 | 0.85 | 0.90 |
| ATNR5010M150□T | 15 | M,N | 100 | 480 | 0.68 | 0.65 |

NOTE :

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* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR5040M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-----------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR5040M1R0□T | 1.0 | Y | 100 | 19.5 | 7.35 | 4.90 |
| ATNR5040M1R5□T | 1.5 | Y | 100 | 24 | 6.00 | 4.30 |
| ATNR5040M2R2□T | 2.2 | Y | 100 | 27 | 5.70 | 3.50 |
| ATNR5040M3R3□T | 3.3 | Y | 100 | 39 | 3.95 | 3.40 |
| ATNR5040M4R7□T | 4.7 | Y | 100 | 30±20% | 4.20 | 3.20 |
| ATNR5040M5R6□T | 5.6 | M,N | 100 | 65 | 3.00 | 2.50 |
| ATNR5040M6R8□T | 6.8 | M,N | 100 | 54 | 3.30 | 2.40 |
| ATNR5040M100□T | 10 | M,N | 100 | 85 | 2.35 | 2.20 |
| ATNR5040M150□T | 15 | M,N | 100 | 117 | 2.30 | 1.80 |
| ATNR5040M220□T | 22 | M,N | 100 | 167.7 | 1.80 | 1.40 |
| ATNR5040M330□T | 33 | M,N | 100 | 216 | 1.30 | 1.20 |
| ATNR5040M470□T | 47 | M,N | 100 | 320 | 1.10 | 1.00 |
| ATNR5040M680□T | 68 | M,N | 100 | 520 | 0.90 | 0.80 |
| ATNR5040M101□T | 100 | M,N | 100 | 560±30% | 0.75 | 0.70 |

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* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR6010M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-----------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR6010M1R5□T | 1.5 | Y | 100 | 108 | 2.40 | 1.90 |
| ATNR6010M2R2□T | 2.2 | Y | 100 | 132 | 1.90 | 1.70 |
| ATNR6010M3R3□T | 3.3 | Y | 100 | 162 | 1.60 | 1.50 |
| ATNR6010M4R7□T | 4.7 | Y | 100 | 198 | 1.30 | 1.40 |
| ATNR6010M6R8□T | 6.8 | M,N | 100 | 264 | 1.20 | 1.20 |
| ATNR6010M100□T | 10 | M,N | 100 | 324 | 1.00 | 1.10 |
| ATNR6010M220□T | 22 | M,N | 100 | 696 | 0.65 | 0.70 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR6012M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR6012M2R5□T | 2.5 | Y | 100 | 108 | 2.10 | 1.73 |
| ATNR6012M4R0□T | 4.0 | Y | 100 | 126 | 1.80 | 1.57 |
| ATNR6012M5R3□T | 5.3 | M,N | 100 | 150 | 1.50 | 1.40 |
| ATNR6012M6R8□T | 6.8 | M,N | 100 | 198 | 1.30 | 1.18 |
| ATNR6012M100□T | 10 | M,N | 100 | 282 | 1.00 | 1.00 |
| ATNR6012M150□T | 15 | M,N | 100 | 396 | 0.80 | 0.79 |
| ATNR6012M220□T | 22 | M,N | 100 | 636 | 0.76 | 0.63 |
| ATNR6012M330□T | 33 | M,N | 100 | 840 | 0.59 | 0.53 |
| ATNR6012M470□T | 47 | M,N | 100 | 1260 | 0.52 | 0.46 |
| ATNR6012M680□T | 68 | M,N | 100 | 1620 | 0.44 | 0.41 |
| ATNR6012M101□T | 100 | M,N | 100 | 2616 | 0.35 | 0.32 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR6020M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR6020M0R8□T | 0.8 | Y | 100 | 24.0 | 5.50 | 3.80 |
| ATNR6020M1R5□T | 1.5 | Y | 100 | 31.2 | 4.00 | 3.20 |
| ATNR6020M2R2□T | 2.2 | Y | 100 | 40.8 | 3.20 | 2.70 |
| ATNR6020M3R3□T | 3.3 | Y | 100 | 48.0 | 2.80 | 2.60 |
| ATNR6020M4R7□T | 4.7 | Y | 100 | 67.2 | 2.40 | 2.00 |
| ATNR6020M6R8□T | 6.8 | M,N | 100 | 102.0 | 2.00 | 1.80 |
| ATNR6020M100□T | 10 | M,N | 100 | 150.0 | 1.60 | 1.40 |
| ATNR6020M220□T | 22 | M,N | 100 | 348.0 | 1.05 | 0.95 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR6045M Series Specification :

| Part Number | Inductance | Inductance | Test Freq. | DCR | Saturation Current | Temp. Rise current |
|----------------|------------|------------|------------|-------------|--------------------|--------------------|
| | (uH) | Tolerance | (KHz) | (mΩ) Max. | (A) Max. | (A) Max. |
| ATNR6045M1R0□T | 1.0 | Y | 100 | 19 | 8.50 | 4.20 |
| ATNR6045M1R3□T | 1.3 | Y | 100 | 21 | 8.00 | 4.00 |
| ATNR6045M1R8□T | 1.8 | Y | 100 | 23 | 7.00 | 3.70 |
| ATNR6045M2R2□T | 2.2 | Y | 100 | 27 | 6.00 | 3.50 |
| ATNR6045M3R3□T | 3.3 | Y | 100 | 31 | 5.00 | 3.20 |
| ATNR6045M4R7□T | 4.7 | Y | 100 | 41 | 4.00 | 3.00 |
| ATNR6045M6R8□T | 6.8 | M,N | 100 | 52 | 3.60 | 2.60 |
| ATNR6045M100□T | 10 | M,N | 100 | 61 | 3.00 | 2.50 |
| ATNR6045M150□T | 15 | M,N | 100 | 100 | 2.30 | 1.90 |
| ATNR6045M220□T | 22 | M,N | 100 | 149 | 1.90 | 1.50 |
| ATNR6045M330□T | 33 | M,N | 100 | 210 | 1.50 | 1.40 |
| ATNR6045M470□T | 47 | M,N | 100 | 286 | 1.30 | 1.10 |
| ATNR6045M680□T | 68 | M,N | 100 | 429 | 1.00 | 0.90 |
| ATNR6045M101□T | 100 | M,N | 100 | 650 | 0.80 | 0.70 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$.($T_a=25^\circ\text{C}$)

◆ ATNR8040M Series Specification :

| Part Number | Inductance (uH) | Inductance Tolerance | Test Freq. (KHz) | DCR (mΩ) Max. | Saturation Current (A) Max. | Temp. Rise current (A) Max. |
|----------------|---------------------|-------------------------|----------------------|-------------------|---------------------------------|---------------------------------|
| ATNR8040M0R9□T | 0.9 | Y | 100 | 7.8 | 11.00 | 7.80 |
| ATNR8040M1R4□T | 1.4 | Y | 100 | 9.1 | 9.00 | 7.00 |
| ATNR8040M2R0□T | 2.0 | Y | 100 | 11.7 | 7.40 | 6.30 |
| ATNR8040M3R6□T | 3.6 | Y | 100 | 19.5 | 5.30 | 4.90 |
| ATNR8040M4R7□T | 4.7 | Y | 100 | 23.4 | 4.70 | 4.10 |
| ATNR8040M6R8□T | 6.8 | M,N | 100 | 32.5 | 4.00 | 3.70 |
| ATNR8040M100□T | 10 | M,N | 100 | 44.2 | 3.40 | 3.10 |
| ATNR8040M150□T | 15 | M,N | 100 | 65.0 | 2.70 | 2.40 |
| ATNR8040M220□T | 22 | M,N | 100 | 85.6 | 2.40 | 2.20 |
| ATNR8040M330□T | 33 | M,N | 100 | 130.0 | 1.90 | 1.70 |
| ATNR8040M470□T | 47 | M,N | 100 | 195.0 | 1.50 | 1.40 |
| ATNR8040M680□T | 68 | M,N | 100 | 299.0 | 1.20 | 1.10 |
| ATNR8040M101□T | 100 | M,N | 100 | 377.0 | 1.00 | 1.00 |

NOTE :

* The operating temperature range is -40°C to +125°C (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : ±30%

* Isat:For Inductance drop 30% from its value without current.

* Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$. ($T_a = 25^\circ\text{C}$)