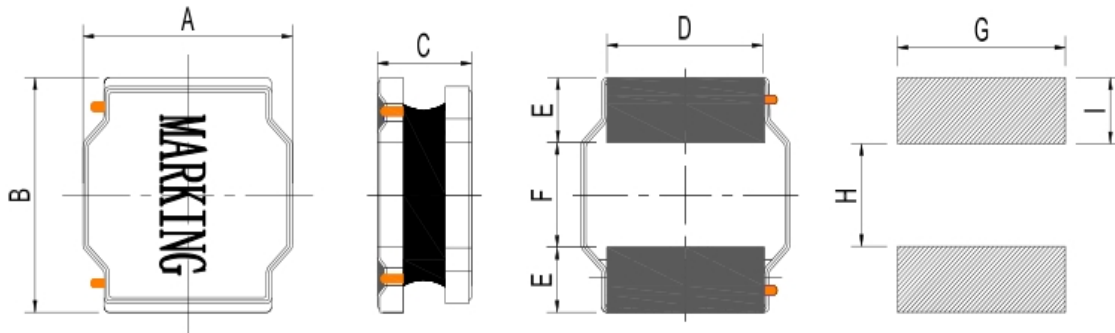




**YXUCT: Power Inductor**

**SERIES: YXNAQ252012**

**PACKAGING DIMENSION: [Unit: mm]**



|   |         |
|---|---------|
| A | 2.5±0.2 |
| B | 2.0±0.2 |
| C | 1.2Max  |
| D | 1.5±0.2 |
| E | 0.8±0.2 |
| F | 0.8±0.2 |
| G | 2.0     |
| H | 0.8     |
| I | 0.85    |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N              | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ) |      | Isat Typ<br>(A) | Irms Typ<br>(A) |
|------------------|---------------------|-------------------|---------|------|-----------------|-----------------|
|                  |                     |                   | Typ     | Max  |                 |                 |
| YXNAQ252012-R47M | 0.47                | 20                | 41      | 45   | 4.51            | 3.70            |
| YXNAQ252012-R68M | 0.68                | 20                | 72      | 79   | 3.84            | 3.30            |
| YXNAQ252012-1R0M | 1.00                | 20                | 83      | 92   | 3.36            | 2.60            |
| YXNAQ252012-1R5M | 1.50                | 20                | 110     | 122  | 2.81            | 2.20            |
| YXNAQ252012-2R2M | 2.20                | 20                | 130     | 158  | 2.32            | 1.85            |
| YXNAQ252012-3R3M | 3.30                | 20                | 196     | 216  | 2.02            | 1.45            |
| YXNAQ252012-4R7M | 4.70                | 20                | 299     | 341  | 1.48            | 1.20            |
| YXNAQ252012-6R8M | 6.80                | 20                | 438     | 482  | 1.22            | 1.00            |
| YXNAQ252012-100M | 10.00               | 20                | 564     | 621  | 1.09            | 0.75            |
| YXNAQ252012-150M | 15.00               | 20                | 1200    | 1320 | 0.85            | 0.60            |
| YXNAQ252012-220M | 22.00               | 20                | 1480    | 1640 | 0.66            | 0.50            |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

Δ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



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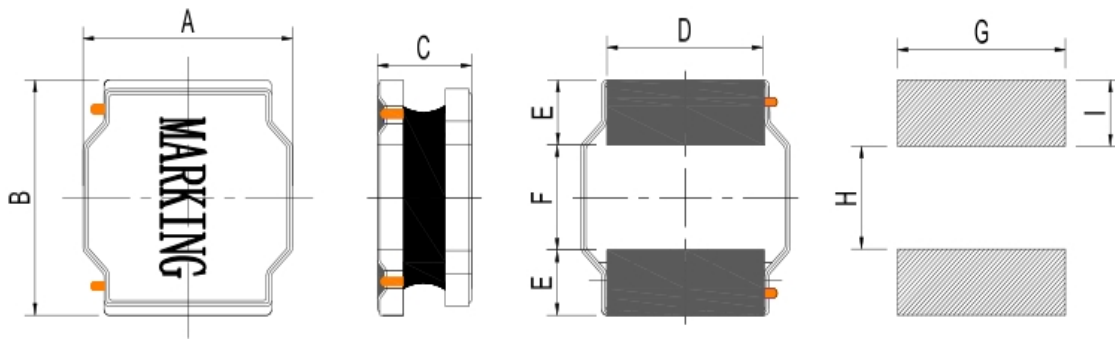
VER: 2.0

DATE: 2017.4.11

**YXUCT: Power Inductor**

**SERIES: YXNAQ252010**

**PACKAGING DIMENSION: [Unit: mm]**



|   |         |
|---|---------|
| A | 2.5±0.2 |
| B | 2.0±0.2 |
| C | 1.0Max  |
| D | 1.5±0.2 |
| E | 0.8±0.2 |
| F | 0.8±0.2 |
| G | 2.0     |
| H | 0.8     |
| I | 0.85    |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N              | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ) |      | Isat Typ<br>(A) | Irms Typ<br>(A) |
|------------------|---------------------|-------------------|---------|------|-----------------|-----------------|
|                  |                     |                   | Typ     | Max  |                 |                 |
| YXNAQ252010-R47N | 0.47                | 30                | 45      | 54   | 3.75            | 3.03            |
| YXNAQ252010-R68N | 0.68                | 30                | 58      | 72   | 3.08            | 2.42            |
| YXNAQ252010-1R0M | 1.00                | 20                | 84      | 110  | 2.46            | 1.98            |
| YXNAQ252010-1R5M | 1.50                | 20                | 142     | 174  | 2.35            | 1.60            |
| YXNAQ252010-2R2M | 2.20                | 20                | 162     | 199  | 1.79            | 1.32            |
| YXNAQ252010-3R3M | 3.30                | 20                | 254     | 312  | 1.46            | 1.10            |
| YXNAQ252010-4R7M | 4.70                | 20                | 437     | 536  | 1.29            | 0.88            |
| YXNAQ252010-6R8M | 6.80                | 20                | 695     | 854  | 1.03            | 0.79            |
| YXNAQ252010-100M | 10.00               | 20                | 846     | 1050 | 0.87            | 0.64            |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

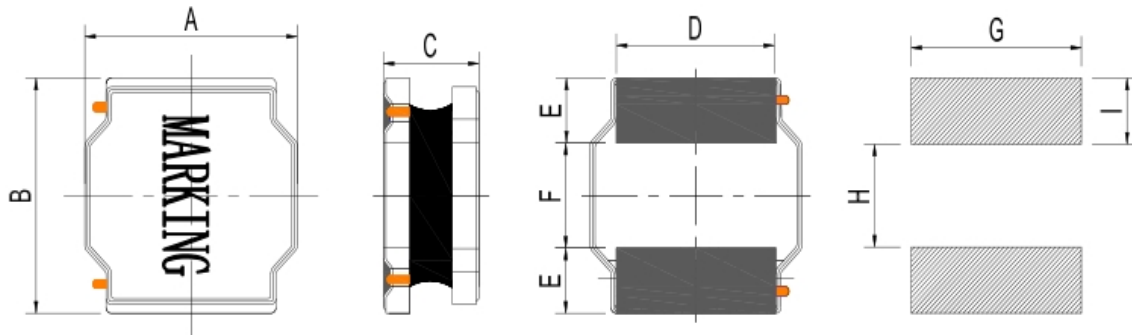
△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAQ3010**

**PACKAGING DIMENSION: [Unit: mm]**



|   |          |
|---|----------|
| A | 3.0±0.2  |
| B | 3.0±0.2  |
| C | 1.0Max   |
| D | 2.5±0.2  |
| E | 0.75±0.2 |
| F | 1.5±0.2  |
| G | 2.7      |
| H | 1.5      |
| I | 0.8      |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | LO Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAQ3010-1R0N | 1.00                | 30                | 56              | 1.89        | 1.81        | 1R0     |
| YXNAQ3010-1R5N | 1.50                | 30                | 68              | 1.71        | 1.63        | 1R5     |
| YXNAQ3010-2R2N | 2.20                | 30                | 95              | 1.55        | 1.36        | 2R2     |
| YXNAQ3010-3R3N | 3.30                | 30                | 124             | 1.31        | 1.20        | 3R3     |
| YXNAQ3010-4R7M | 4.70                | 20                | 193             | 1.03        | 0.96        | 4R7     |
| YXNAQ3010-6R8M | 6.80                | 20                | 261             | 0.89        | 0.83        | 6R8     |
| YXNAQ3010-100M | 10.00               | 20                | 342             | 0.78        | 0.73        | 100     |
| YXNAQ3010-120M | 12.00               | 20                | 432             | 0.69        | 0.65        | 120     |
| YXNAQ3010-150M | 15.00               | 20                | 522             | 0.61        | 0.59        | 150     |
| YXNAQ3010-220M | 22.00               | 20                | 796             | 0.48        | 0.48        | 220     |
| YXNAQ3010-330M | 33.00               | 20                | 1326            | 0.39        | 0.38        | 330     |
| YXNAQ3010-390M | 39.00               | 20                | 1497            | 0.38        | 0.35        | 390     |
| YXNAQ3010-470M | 47.00               | 20                | 1668            | 0.30        | 0.33        | 470     |
| YXNAQ3010-510M | 51.00               | 20                | 1881            | 0.29        | 0.31        | 510     |
| YXNAQ3010-560M | 56.00               | 20                | 1984            | 0.29        | 0.30        | 560     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



# YUXIN TECHNOLOGY CO., LTD.

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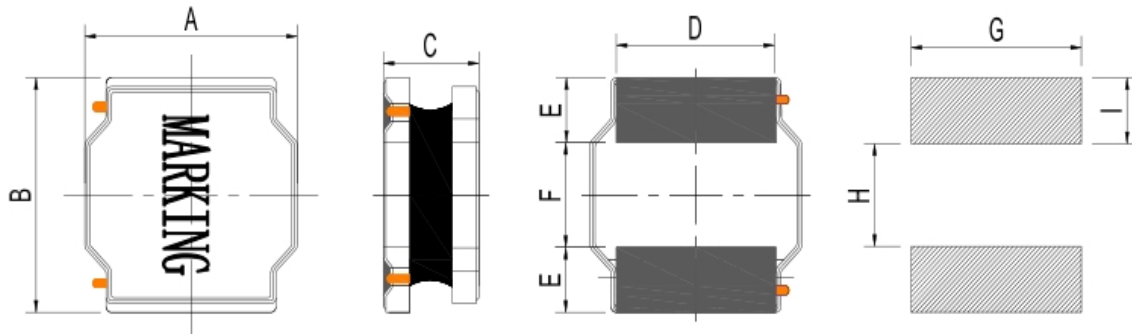
VER: 2.0

DATE: 2017.4.11

## YXUCT: Power Inductor

### SERIES: YXNAE3015

### PACKAGING DIMENSION: [Unit: mm]



|   |          |
|---|----------|
| A | 3.0±0.2  |
| B | 3.0±0.2  |
| C | 1.5Max   |
| D | 2.5±0.2  |
| E | 0.75±0.2 |
| F | 1.5±0.2  |
| G | 2.7      |
| H | 1.5      |
| I | 0.8      |

### GENERAL SPECIFICATIONS:

**RoHS  
COMPLIANT**

| P/N            | LO Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE3015-1R0N | 1.00                | 30                | 30              | 2.32        | 2.10        | 1R0     |
| YXNAE3015-1R5N | 1.50                | 30                | 50              | 2.00        | 1.70        | 1R5     |
| YXNAE3015-2R2N | 2.20                | 30                | 60              | 1.60        | 1.60        | 2R2     |
| YXNAE3015-3R3M | 3.30                | 20                | 80              | 1.32        | 1.36        | 3R3     |
| YXNAE3015-4R7M | 4.70                | 20                | 125             | 1.10        | 1.09        | 4R7     |
| YXNAE3015-5R6M | 5.60                | 20                | 170             | 1.05        | 1.00        | 5R6     |
| YXNAE3015-6R8M | 6.80                | 20                | 200             | 0.85        | 0.85        | 6R8     |
| YXNAE3015-100M | 10.00               | 20                | 250             | 0.72        | 0.77        | 100     |
| YXNAE3015-150M | 15.00               | 20                | 350             | 0.65        | 0.65        | 150     |
| YXNAE3015-220M | 22.00               | 20                | 460             | 0.52        | 0.57        | 220     |
| YXNAE3015-330M | 33.00               | 20                | 820             | 0.44        | 0.42        | 330     |
| YXNAE3015-470M | 47.00               | 20                | 1250            | 0.35        | 0.32        | 470     |

◎testing frequency:100KHz/1V

◎All test Data is referenced to 20°C ambient

◎Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

◎ Typical Saturation DC Current would cause Lo to drop approximately 30%

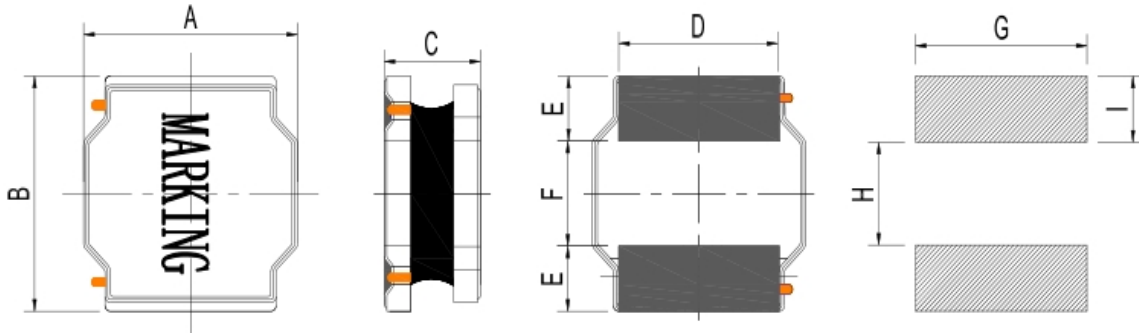
△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAE4018**

**PACKAGING DIMENSION: [Unit: mm]**



|   |          |
|---|----------|
| A | 4.0±0.2  |
| B | 4.0±0.2  |
| C | 1.8Max   |
| D | 3.3±0.2  |
| E | 0.95±0.2 |
| F | 2.1±0.2  |
| G | 3.7      |
| H | 1.9      |
| I | 1.1      |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE4018-1R0N | 1.00                | 30                | 25              | 4.50        | 2.50        | 1R0     |
| YXNAE4018-1R5N | 1.50                | 30                | 30              | 3.35        | 2.34        | 1R5     |
| YXNAE4018-2R2M | 2.20                | 20                | 44              | 2.70        | 2.00        | 2R2     |
| YXNAE4018-3R3M | 3.30                | 20                | 70              | 2.45        | 1.90        | 3R3     |
| YXNAE4018-4R7M | 4.70                | 20                | 90              | 1.70        | 1.70        | 4R7     |
| YXNAE4018-5R6M | 5.60                | 20                | 103             | 1.60        | 1.50        | 5R6     |
| YXNAE4018-6R8M | 6.80                | 20                | 124             | 1.45        | 1.30        | 6R8     |
| YXNAE4018-8R2M | 8.20                | 20                | 180             | 1.40        | 1.15        | 8R2     |
| YXNAE4018-100M | 10.00               | 20                | 200             | 1.30        | 1.10        | 100     |
| YXNAE4018-150M | 15.00               | 20                | 268             | 0.94        | 0.92        | 150     |
| YXNAE4018-220M | 22.00               | 20                | 390             | 0.80        | 0.80        | 220     |
| YXNAE4018-330M | 33.00               | 20                | 560             | 0.65        | 0.60        | 330     |
| YXNAE4018-470M | 47.00               | 20                | 756             | 0.57        | 0.50        | 470     |

◎testing frequency:100KHz/1V

◎All test Data is referenced to 20°C ambient

◎Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

◎ Typical Saturation DC Current would cause Lo to drop approximately 30%

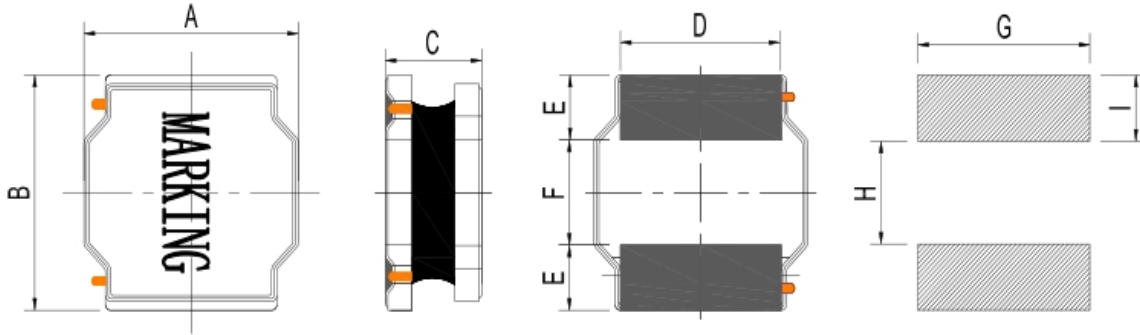
△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAE4020**

**PACKAGING DIMENSION: [Unit: mm]**



|   |          |
|---|----------|
| A | 4.0±0.2  |
| B | 4.0±0.2  |
| C | 2.1Max   |
| D | 3.3±0.2  |
| E | 0.95±0.2 |
| F | 2.1±0.2  |
| G | 3.7      |
| H | 1.9      |
| I | 1.1      |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE4020-1R0N | 1                   | 30                | 28              | 5.10        | 2.15        | 1R0     |
| YXNAE4020-1R2N | 1.2                 | 30                | 29              | 4.70        | 2.10        | 1R2     |
| YXNAE4020-1R5N | 1.5                 | 30                | 35              | 4.45        | 1.98        | 1R5     |
| YXNAE4020-2R2M | 2.2                 | 20                | 40              | 3.40        | 1.85        | 2R2     |
| YXNAE4020-3R3M | 3.3                 | 20                | 70              | 3.20        | 1.40        | 3R3     |
| YXNAE4020-4R7M | 4.7                 | 20                | 80              | 2.35        | 1.34        | 4R7     |
| YXNAE4020-5R6M | 5.6                 | 20                | 95              | 2.20        | 1.22        | 5R6     |
| YXNAE4020-6R8M | 6.8                 | 20                | 125             | 2.00        | 1.04        | 6R8     |
| YXNAE4020-8R2M | 8.2                 | 20                | 150             | 1.75        | 1.00        | 8R2     |
| YXNAE4020-100M | 10                  | 20                | 165             | 1.60        | 0.90        | 100     |
| YXNAE4020-120M | 12                  | 20                | 175             | 1.50        | 0.88        | 120     |
| YXNAE4020-150M | 15                  | 20                | 230             | 1.35        | 0.77        | 150     |
| YXNAE4020-220M | 22                  | 20                | 350             | 1.05        | 0.62        | 220     |
| YXNAE4020-330M | 33                  | 20                | 500             | 0.85        | 0.49        | 330     |
| YXNAE4020-470M | 47                  | 20                | 710             | 0.74        | 0.44        | 470     |
| YXNAE4020-680M | 68                  | 20                | 1250            | 0.60        | 0.35        | 680     |

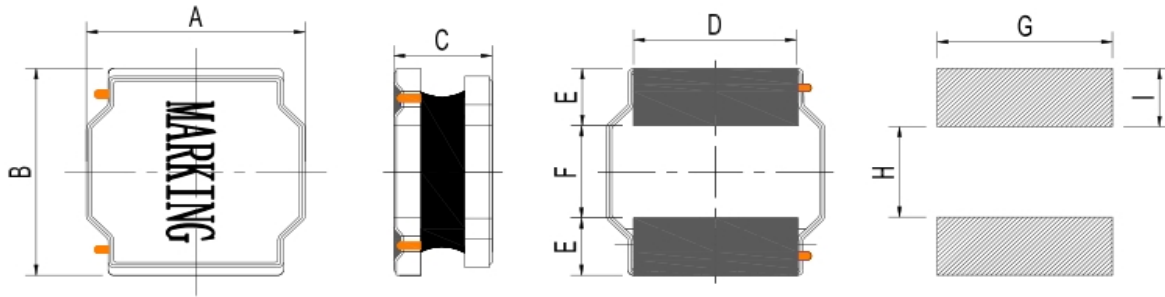
©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

Δ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )

**YXUCT: Power Inductor****SERIES: YXNAE4030****PACKAGING DIMENSION: [Unit: mm]**

|   |          |
|---|----------|
| A | 4.0±0.2  |
| B | 4.0±0.2  |
| C | 3.0Max   |
| D | 3.3±0.2  |
| E | 0.95±0.2 |
| F | 2.1±0.2  |
| G | 3.7      |
| H | 1.9      |
| I | 1.1      |

**GENERAL SPECIFICATIONS:**

**RoHS**  
COMPLIANT

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE4030-1R0N | 1                   | 30                | 15              | 5.90        | 3.40        | 1R0     |
| YXNAE4030-1R5N | 1.5                 | 30                | 25              | 4.85        | 3.30        | 1R5     |
| YXNAE4030-2R2M | 2.2                 | 20                | 35              | 4.10        | 2.95        | 2R2     |
| YXNAE4030-3R3M | 3.3                 | 20                | 40              | 3.30        | 2.40        | 3R3     |
| YXNAE4030-3R9M | 3.9                 | 20                | 57              | 3.00        | 2.10        | 3R9     |
| YXNAE4030-4R7M | 4.7                 | 20                | 60              | 2.90        | 2.00        | 4R7     |
| YXNAE4030-5R6M | 5.6                 | 20                | 70              | 2.75        | 1.95        | 5R6     |
| YXNAE4030-6R8M | 6.8                 | 20                | 75              | 2.60        | 1.70        | 6R8     |
| YXNAE4030-7R5M | 7.5                 | 20                | 90              | 2.20        | 1.65        | 7R5     |
| YXNAE4030-8R2M | 8.2                 | 20                | 100             | 2.10        | 1.60        | 8R2     |
| YXNAE4030-100M | 10                  | 20                | 115             | 1.95        | 1.50        | 100     |
| YXNAE4030-120M | 12                  | 20                | 140             | 1.70        | 1.35        | 120     |
| YXNAE4030-150M | 15                  | 20                | 190             | 1.65        | 1.15        | 150     |
| YXNAE4030-180M | 18                  | 20                | 215             | 1.40        | 1.10        | 180     |
| YXNAE4030-220M | 22                  | 20                | 225             | 1.30        | 1.00        | 220     |
| YXNAE4030-330M | 33                  | 20                | 330             | 1.10        | 0.84        | 330     |
| YXNAE4030-470M | 47                  | 20                | 500             | 0.90        | 0.72        | 470     |
| YXNAE4030-560M | 56                  | 20                | 560             | 0.85        | 0.65        | 560     |
| YXNAE4030-680M | 68                  | 20                | 750             | 0.75        | 0.55        | 680     |
| YXNAE4030-820M | 82                  | 20                | 950             | 0.68        | 0.50        | 820     |
| YXNAE4030-101M | 100                 | 20                | 1150            | 0.60        | 0.45        | 101     |
| YXNAE4030-151M | 150                 | 20                | 2350            | 0.50        | 0.35        | 151     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

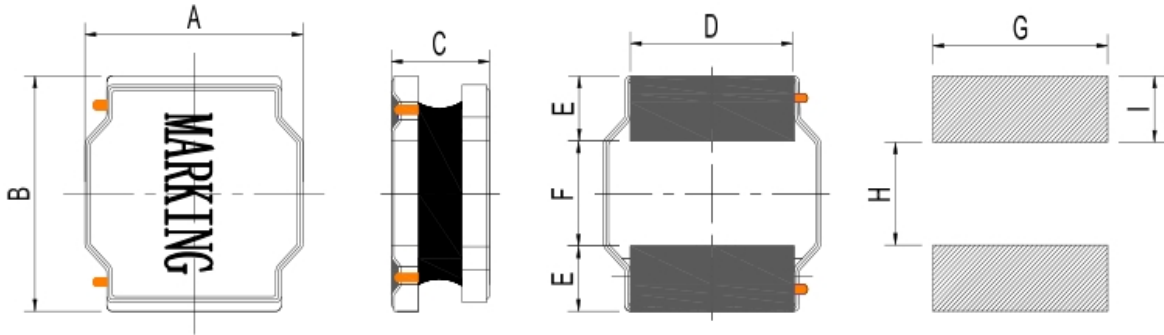
△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAE5020**

**PACKAGING DIMENSION: [Unit: mm]**



|   |          |
|---|----------|
| A | 5.0±0.2  |
| B | 5.0±0.2  |
| C | 2.0Max   |
| D | 4.0±0.2  |
| E | 1.25±0.2 |
| F | 2.5±0.2  |
| G | 4.2      |
| H | 2.3      |
| I | 1.4      |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE5020-1R0N | 1                   | 30                | 20              | 4.33        | 3.70        | 1R0     |
| YXNAE5020-1R5N | 1.5                 | 30                | 26              | 4.10        | 3.20        | 1R5     |
| YXNAE5020-2R2N | 2.2                 | 30                | 38              | 3.85        | 2.90        | 2R2     |
| YXNAE5020-3R3N | 3.3                 | 30                | 46              | 3.25        | 2.40        | 3R3     |
| YXNAE5020-4R7M | 4.7                 | 20                | 65              | 2.40        | 2.05        | 4R7     |
| YXNAE5020-6R8M | 6.8                 | 20                | 92              | 2.10        | 1.70        | 6R8     |
| YXNAE5020-8R2M | 8.2                 | 20                | 100             | 1.90        | 1.60        | 8R2     |
| YXNAE5020-100M | 10                  | 20                | 125             | 1.80        | 1.50        | 100     |
| YXNAE5020-150M | 15                  | 20                | 180             | 1.44        | 1.25        | 150     |
| YXNAE5020-220M | 22                  | 20                | 250             | 1.18        | 1.05        | 220     |
| YXNAE5020-330M | 33                  | 20                | 370             | 0.97        | 0.83        | 330     |
| YXNAE5020-470M | 47                  | 20                | 560             | 0.81        | 0.70        | 470     |

©testing frequency:100KHz/1V

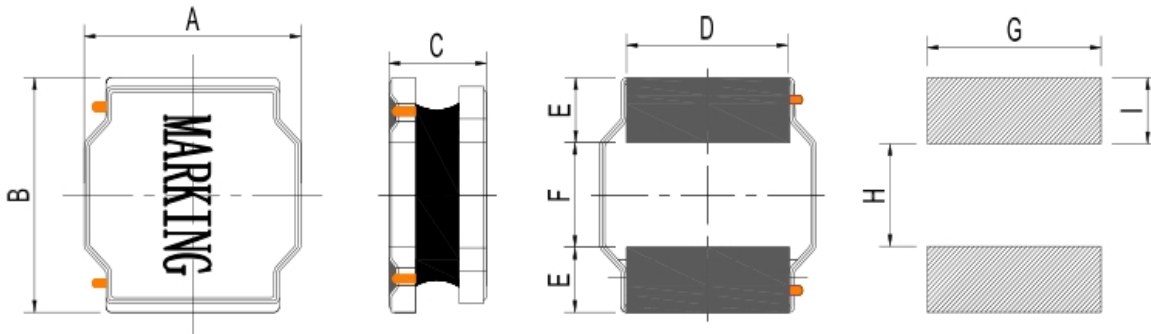
©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor****SERIES: YXNAE5040****PACKAGING DIMENSION: [Unit: mm]**

|   |          |
|---|----------|
| A | 5.0±0.2  |
| B | 5.0±0.2  |
| C | 4.0Max   |
| D | 4.0±0.2  |
| E | 1.25±0.2 |
| F | 2.5±0.2  |
| G | 4.2      |
| H | 2.3      |
| I | 1.4      |

**GENERAL SPECIFICATIONS:**

**RoHS**  
COMPLIANT

| P/N            | LO Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE5040-1R0N | 1                   | 30                | 13              | 7.35        | 4.90        | 1R0     |
| YXNAE5040-1R5N | 1.5                 | 30                | 15              | 6.30        | 4.30        | 1R5     |
| YXNAE5040-2R2N | 2.2                 | 30                | 19              | 4.90        | 3.80        | 2R2     |
| YXNAE5040-2R7N | 2.7                 | 30                | 22              | 4.30        | 3.60        | 2R7     |
| YXNAE5040-3R3N | 3.3                 | 30                | 24              | 3.95        | 3.40        | 3R3     |
| YXNAE5040-3R9N | 3.9                 | 30                | 27              | 3.55        | 3.20        | 3R9     |
| YXNAE5040-4R7N | 4.7                 | 30                | 30              | 3.50        | 3.00        | 4R7     |
| YXNAE5040-5R6M | 5.6                 | 20                | 33              | 3.20        | 2.80        | 5R6     |
| YXNAE5040-6R8M | 6.8                 | 20                | 43              | 2.90        | 2.50        | 6R8     |
| YXNAE5040-100M | 10                  | 20                | 64              | 2.35        | 2.10        | 100     |
| YXNAE5040-150M | 15                  | 20                | 86              | 2.00        | 2.00        | 150     |
| YXNAE5040-220M | 22                  | 20                | 129             | 1.60        | 1.50        | 220     |
| YXNAE5040-270M | 27                  | 20                | 165             | 1.50        | 1.30        | 270     |
| YXNAE5040-330M | 33                  | 20                | 188             | 1.30        | 1.20        | 330     |
| YXNAE5040-470M | 47                  | 20                | 270             | 1.10        | 1.00        | 470     |
| YXNAE5040-680M | 68                  | 20                | 400             | 0.90        | 0.80        | 680     |
| YXNAE5040-101M | 100                 | 20                | 560             | 0.75        | 0.70        | 101     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



# YUXIN TECHNOLOGY CO., LTD.

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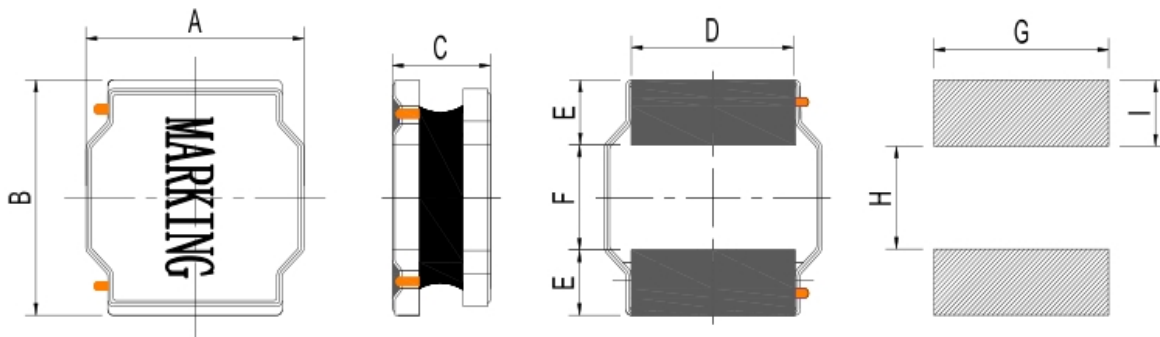
VER: 2.0

DATE: 2017.4.13

## YXUCT: Power Inductor

### SERIES: YXNAE6020

### PACKAGING DIMENSION: [Unit: mm]



|   |         |
|---|---------|
| A | 6.0±0.2 |
| B | 6.0±0.2 |
| C | 2.8Max  |
| D | 4.9±0.2 |
| E | 1.7±0.2 |
| F | 2.9±0.2 |
| G | 5.7     |
| H | 2.8     |
| I | 1.7     |

### GENERAL SPECIFICATIONS:

**RoHS  
COMPLIANT**

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE6020-1R0N | 1                   | 30                | 20              | 4.30        | 3.50        | 1R0     |
| YXNAE6020-1R5N | 1.5                 | 30                | 25              | 4.25        | 3.20        | 1R5     |
| YXNAE6020-2R2N | 2.2                 | 30                | 35              | 3.75        | 2.75        | 2R2     |
| YXNAE6020-3R3N | 3.3                 | 30                | 45              | 3.15        | 2.60        | 3R3     |
| YXNAE6020-4R7N | 4.7                 | 30                | 58              | 3.00        | 2.00        | 4R7     |
| YXNAE6020-5R6M | 5.6                 | 20                | 70              | 2.40        | 1.90        | 5R6     |
| YXNAE6020-6R8M | 6.8                 | 20                | 85              | 2.20        | 1.80        | 6R8     |
| YXNAE6020-100M | 10                  | 20                | 120             | 1.75        | 1.40        | 100     |
| YXNAE6020-150M | 15                  | 20                | 160             | 1.50        | 1.20        | 150     |
| YXNAE6020-220M | 22                  | 20                | 240             | 1.25        | 1.00        | 220     |
| YXNAE6020-270M | 27                  | 20                | 350             | 1.15        | 0.95        | 270     |
| YXNAE6020-330M | 33                  | 20                | 400             | 1.10        | 0.90        | 330     |
| YXNAE6020-470M | 47                  | 20                | 500             | 1.00        | 0.80        | 470     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

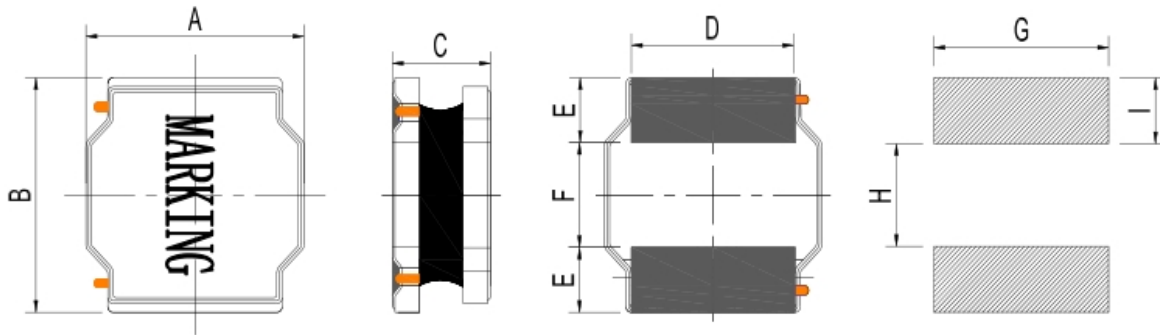
△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAE6028**

**PACKAGING DIMENSION: [Unit: mm]**



|   |         |
|---|---------|
| A | 6.0±0.2 |
| B | 6.0±0.2 |
| C | 2.8Max  |
| D | 4.9±0.2 |
| E | 1.7±0.2 |
| F | 2.9±0.2 |
| G | 5.7     |
| H | 2.8     |
| I | 1.7     |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | L0 Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE6028-1R0N | 1                   | 30                | 12              | 6.70        | 4.60        | 1R0     |
| YXNAE6028-1R5N | 1.5                 | 30                | 16              | 6.00        | 4.30        | 1R5     |
| YXNAE6028-2R2N | 2.2                 | 30                | 20              | 5.10        | 3.75        | 2R2     |
| YXNAE6028-3R3N | 3.3                 | 30                | 25              | 3.63        | 3.40        | 3R3     |
| YXNAE6028-4R7N | 4.7                 | 30                | 33              | 3.00        | 3.00        | 4R7     |
| YXNAE6028-5R6N | 5.6                 | 30                | 45              | 2.80        | 2.45        | 5R6     |
| YXNAE6028-6R8M | 6.8                 | 20                | 56              | 2.60        | 2.40        | 6R8     |
| YXNAE6028-8R2M | 8.2                 | 20                | 68              | 2.40        | 2.25        | 8R2     |
| YXNAE6028-100M | 10                  | 20                | 78              | 2.05        | 1.90        | 100     |
| YXNAE6028-120M | 12                  | 20                | 88              | 1.80        | 1.70        | 120     |
| YXNAE6028-150M | 15                  | 20                | 125             | 1.75        | 1.50        | 150     |
| YXNAE6028-180M | 18                  | 20                | 130             | 1.55        | 1.45        | 180     |
| YXNAE6028-220M | 22                  | 20                | 140             | 1.45        | 1.40        | 220     |
| YXNAE6028-270M | 27                  | 20                | 180             | 1.40        | 1.30        | 270     |
| YXNAE6028-330M | 33                  | 20                | 220             | 1.35        | 1.10        | 330     |
| YXNAE6028-390M | 39                  | 20                | 225             | 1.25        | 1.10        | 390     |
| YXNAE6028-470M | 47                  | 20                | 280             | 1.15        | 1.05        | 470     |
| YXNAE6028-680M | 68                  | 20                | 420             | 0.95        | 0.85        | 680     |
| YXNAE6028-820M | 82                  | 20                | 550             | 0.80        | 0.70        | 820     |
| YXNAE6028-101M | 100                 | 20                | 670             | 0.65        | 0.60        | 101     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )

## GENERAL SPECIFICATIONS:

RoHS  
COMPLIANT

| P/N            | LO Inductance<br>$\mu\text{H}$ | Tolerance<br>( $\pm\%$ ) | DCR(m $\Omega$ )<br>$\pm 30\%$ | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|--------------------------------|--------------------------|--------------------------------|-------------|-------------|---------|
| YXNAE6045-R82N | 0.82                           | 30                       | 8                              | 10.40       | 5.90        | R82     |
| YXNAE6045-1R0N | 1                              | 30                       | 11                             | 9.85        | 5.14        | 1R0     |
| YXNAE6045-1R2N | 1.2                            | 30                       | 10                             | 8.35        | 5.40        | 1R2     |
| YXNAE6045-1R5N | 1.5                            | 30                       | 12                             | 8.80        | 4.95        | 1R5     |
| YXNAE6045-1R8N | 1.8                            | 30                       | 12                             | 7.60        | 4.95        | 1R8     |
| YXNAE6045-2R2N | 2.2                            | 30                       | 14                             | 6.75        | 4.60        | 2R2     |
| YXNAE6045-2R3N | 2.3                            | 30                       | 14                             | 6.00        | 3.50        | 2R3     |
| YXNAE6045-2R7N | 2.7                            | 30                       | 15                             | 5.75        | 4.30        | 2R7     |
| YXNAE6045-3R0N | 3                              | 30                       | 20                             | 5.60        | 3.80        | 3R0     |
| YXNAE6045-3R3N | 3.3                            | 30                       | 21                             | 5.90        | 3.70        | 3R3     |
| YXNAE6045-3R6N | 3.6                            | 30                       | 21                             | 5.25        | 3.70        | 3R6     |
| YXNAE6045-4R3M | 4.3                            | 20                       | 23                             | 4.45        | 3.50        | 4R3     |
| YXNAE6045-4R7M | 4.7                            | 20                       | 26                             | 4.97        | 3.30        | 4R7     |
| YXNAE6045-5R1M | 5.1                            | 20                       | 26                             | 4.40        | 3.30        | 5R1     |
| YXNAE6045-5R6M | 5.6                            | 20                       | 29                             | 4.15        | 3.15        | 5R6     |
| YXNAE6045-6R2M | 6.2                            | 20                       | 31                             | 4.43        | 3.00        | 6R2     |
| YXNAE6045-6R8M | 6.8                            | 20                       | 31                             | 3.90        | 3.00        | 6R8     |
| YXNAE6045-7R5M | 7.5                            | 20                       | 34                             | 3.50        | 2.90        | 7R5     |
| YXNAE6045-8R2M | 8.2                            | 20                       | 43                             | 3.90        | 2.60        | 8R2     |
| YXNAE6045-9R1M | 9.1                            | 20                       | 43                             | 3.35        | 2.60        | 9R1     |
| YXNAE6045-100M | 10                             | 20                       | 48                             | 3.20        | 2.45        | 100     |
| YXNAE6045-120M | 12                             | 20                       | 58                             | 2.80        | 2.20        | 120     |
| YXNAE6045-150M | 15                             | 20                       | 68                             | 2.50        | 2.05        | 150     |
| YXNAE6045-180M | 18                             | 20                       | 81                             | 2.20        | 1.85        | 180     |
| YXNAE6045-220M | 22                             | 20                       | 89                             | 2.05        | 1.80        | 220     |
| YXNAE6045-270M | 27                             | 20                       | 102                            | 1.90        | 1.65        | 270     |
| YXNAE6045-300M | 30                             | 20                       | 132                            | 1.70        | 1.50        | 300     |
| YXNAE6045-330M | 33                             | 20                       | 137                            | 1.65        | 1.45        | 330     |
| YXNAE6045-360M | 36                             | 20                       | 173                            | 1.62        | 1.40        | 360     |
| YXNAE6045-390M | 39                             | 20                       | 180                            | 1.50        | 1.25        | 390     |
| YXNAE6045-430M | 43                             | 20                       | 200                            | 1.63        | 1.20        | 430     |
| YXNAE6045-470M | 47                             | 20                       | 200                            | 1.40        | 1.20        | 470     |

⊙testing frequency:100KHz/1V

⊙All test Data is referenced to 20°C ambient

⊙Typical Heat Rating DC Current would cause an approximately  $\Delta T$  of 40°C

⊙ Typical Saturation DC Current would cause Lo to drop approximately 30%

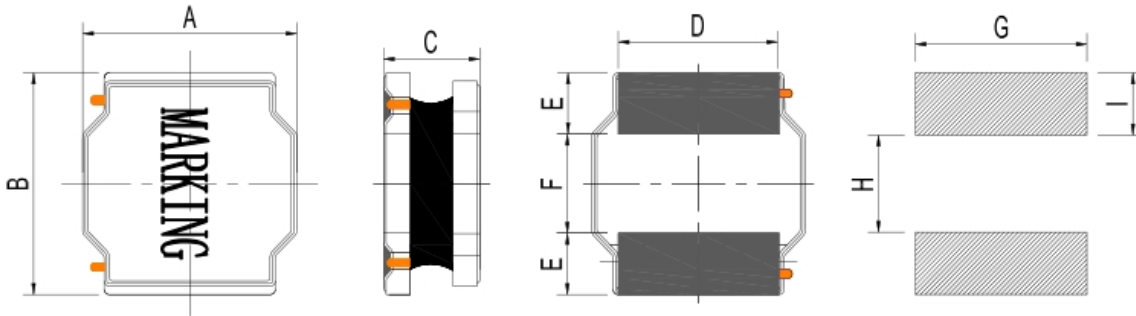
△ Operating Temperature Range:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$  ( Self-temperature rise is included )



**YXUCT: Power Inductor**

**SERIES: YXNAE8040**

**PACKAGING DIMENSION: [Unit: mm]**



|   |         |
|---|---------|
| A | 8.0±0.3 |
| B | 8.0±0.3 |
| C | 4.2Max  |
| D | 6.3±0.3 |
| E | 2.2±0.3 |
| F | 4.0±0.3 |
| G | 7.5     |
| H | 3.8     |
| I | 2.2     |

**GENERAL SPECIFICATIONS:**

**RoHS  
COMPLIANT**

| P/N            | LO Inductance<br>μH | Tolerance<br>(±%) | DCR(mΩ)<br>±30% | Isat<br>(A) | Irms<br>(A) | Marking |
|----------------|---------------------|-------------------|-----------------|-------------|-------------|---------|
| YXNAE8040-R56N | 0.56                | 30                | 5               | 11.50       | 7.60        | R56     |
| YXNAE8040-1R0N | 1                   | 30                | 8               | 9.85        | 6.30        | 1R0     |
| YXNAE8040-1R5N | 1.5                 | 30                | 10              | 8.15        | 5.65        | 1R5     |
| YXNAE8040-2R2N | 2.2                 | 30                | 12              | 7.10        | 5.15        | 2R2     |
| YXNAE8040-3R3N | 3.3                 | 30                | 17              | 6.50        | 4.40        | 3R3     |
| YXNAE8040-4R7N | 4.7                 | 30                | 20              | 5.90        | 4.00        | 4R7     |
| YXNAE8040-5R6N | 5.6                 | 30                | 24              | 5.50        | 3.80        | 5R6     |
| YXNAE8040-6R8M | 6.8                 | 20                | 28              | 4.55        | 3.60        | 6R8     |
| YXNAE8040-8R2M | 8.2                 | 20                | 35              | 4.20        | 3.40        | 8R2     |
| YXNAE8040-100M | 10                  | 20                | 37              | 3.60        | 3.10        | 100     |
| YXNAE8040-150M | 15                  | 20                | 56              | 2.95        | 2.50        | 150     |
| YXNAE8040-220M | 22                  | 20                | 74              | 2.40        | 2.00        | 220     |
| YXNAE8040-330M | 33                  | 20                | 100             | 2.05        | 1.70        | 330     |
| YXNAE8040-470M | 47                  | 20                | 158             | 1.75        | 1.50        | 470     |
| YXNAE8040-680M | 68                  | 20                | 196             | 1.45        | 1.20        | 680     |
| YXNAE8040-101M | 100                 | 20                | 295             | 1.15        | 1.00        | 101     |
| YXNAE8040-151M | 150                 | 20                | 470             | 1.10        | 0.80        | 151     |
| YXNAE8040-181M | 180                 | 20                | 610             | 0.90        | 0.75        | 181     |
| YXNAE8040-221M | 220                 | 20                | 660             | 0.85        | 0.70        | 221     |
| YXNAE8040-331M | 330                 | 20                | 970             | 0.68        | 0.55        | 331     |
| YXNAE8040-471M | 470                 | 20                | 1400            | 0.60        | 0.48        | 471     |

©testing frequency:100KHz/1V

©All test Data is referenced to 20°C ambient

©Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

© Typical Saturation DC Current would cause Lo to drop approximately 30%

△ Operating Temperature Range: -40°C ~ +125°C ( Self-temperature rise is included )

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