

## ● FEATURES 特性

1.表面贴装,小型、超薄电感器,大功率,高饱和,低电阻之特性. he inductor designed as surface mounting , smallest and thinnest with high power , high saturation and low resistance

2.磁性胶水涂敷结构极大减少了噪声, 闭合磁路结构设计,漏磁少,抗 EMI 能力强.

Magnetic-resin shielded structure reduces buzz noise to ultra-low levels , Closed magnetic circuit structure reduces magnetic leakage flux , high performance of anti-EMI . 3.同等尺寸额定电流较传统电感高出 30%以上.

Compared with the same size part , the rated current 30% higher than the traditional inductors . 4.工作频率范围广,可达 5MHz 以上. Wide range working frequency that reach more than 5MHz 5.RoHS , 无卤环保产品. RoHS ,Halogen-free environmental protection products

## ● APPLICATIONS 用途

1. LED Lighting LED 照明

2. Automotive systems 汽车产品

3. Notebooks,desktop computers,servers,graphic cards 笔记本电脑, 台式电脑, 服务器, 显卡

## ● PART NUMBERING SYSTEM 品名系统



## ● STRUCTURAL DRAWING 结构图



- |                |                           |
|----------------|---------------------------|
| ① Ferrite core | Ni-Zn Ferrite             |
| ② Winding wire | Polyurethane-copper wire  |
| ③ Electrode    | External electrode        |
| ④ Epoxy resin  | containing ferrite powder |

● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



Fig 1



Fig 2



Fig 3

Recommended patterns

| TYPE(型号)   | A       | B       | C        | D       | E        | F   | G    | H   | Fig |
|------------|---------|---------|----------|---------|----------|-----|------|-----|-----|
| XRNR201610 | 2.0±0.3 | 1.6±0.3 | 1.05 Max | 0.6±0.2 | 0.77±0.2 | 0.6 | 0.8  | 1.8 | 1   |
| XRNR252010 | 2.5±0.3 | 2.0±0.3 | 1.05 Max | 0.8±0.3 | 0.9±0.3  | 0.6 | 1.1  | 2.0 | 1   |
| XRNR252012 | 2.5±0.3 | 2.0±0.3 | 1.25 Max | 0.8±0.3 | 0.9±0.3  | 0.6 | 1.1  | 2.0 | 1   |
| XRNRS3010  | 3.0±0.2 | 3.0±0.2 | 1.1 Max  | 1.2±0.3 | 0.9±0.3  | 1.1 | 1.0  | 2.7 | 3   |
| XRNRS3012  | 3.0±0.2 | 3.0±0.2 | 1.3 Max  | 1.2±0.3 | 0.9±0.3  | 1.1 | 1.0  | 2.7 | 3   |
| XRNRS3015  | 3.0±0.2 | 3.0±0.2 | 1.7 Max  | 1.2±0.3 | 0.9±0.3  | 1.1 | 1.0  | 2.7 | 3   |
| XRNR4012   | 4.0±0.2 | 4.0±0.2 | 1.2 Max  | 1.6±0.3 | 1.2±0.3  | 1.4 | 1.3  | 3.7 | 3   |
| XRNR4018   | 4.0±0.2 | 4.0±0.2 | 1.8 Max  | 1.6±0.3 | 1.2±0.3  | 1.4 | 1.3  | 3.7 | 3   |
| XRNR4020   | 4.0±0.2 | 4.0±0.2 | 2.0 Max  | 1.6±0.3 | 1.2±0.3  | 1.4 | 1.3  | 3.7 | 3   |
| XRNR4030   | 4.0±0.2 | 4.0±0.2 | 3.0 Max  | 1.3±0.3 | 1.35±0.3 | 1.2 | 1.40 | 3.7 | 3   |
| XRNR5020   | 5.0±0.2 | 5.0±0.2 | 2.1 Max  | 1.4±0.3 | 1.8±0.3  | 1.2 | 1.9  | 4.2 | 2   |
| XRNR5040   | 5.0±0.2 | 5.0±0.2 | 4.0 Max  | 1.6±0.3 | 1.7±0.3  | 1.4 | 1.8  | 4.2 | 3   |
| XRNR6020   | 6.0±0.3 | 6.0±0.3 | 2.1 Max  | 2.3±0.3 | 1.85±0.3 | 2.4 | 1.8  | 5.7 | 2   |
| XRNRS6028  | 6.0±0.3 | 6.0±0.3 | 3.0 Max  | 2.3±0.3 | 1.85±0.3 | 2.4 | 1.8  | 5.7 | 2   |
| XRNR6045   | 6.0±0.3 | 6.0±0.3 | 4.7 Max  | 2.3±0.3 | 1.85±0.3 | 2.4 | 1.8  | 5.7 | 2   |
| XRNR8040   | 8.0±0.3 | 8.0±0.3 | 4.2 Max  | 3.8±0.3 | 2.1±0.3  | 3.6 | 2.2  | 7.5 | 2   |

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| PART NUMBER<br>品名   | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR (Max.)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | Marker<br>印字 |
|---------------------|---------------------------------|------------------------------------|----------------------------|----------------------------|--------------|
| XRNR201610-0.47uH/N | 0.47 $\pm$ 30%                  | 0.059                              | 2.30                       | 2.35                       | /            |
| XRNR201610-0.68uH/N | 0.68 $\pm$ 30%                  | 0.076                              | 1.95                       | 2.05                       | /            |
| XRNR201610-1uH/N    | 1.0 $\pm$ 30%                   | 0.114                              | 1.65                       | 1.45                       | /            |
| XRNR201610-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.174                              | 1.35                       | 1.25                       | /            |
| XRNR201610-2.2uH/M  | 2.2 $\pm$ 20%                   | 0.264                              | 1.20                       | 1.10                       | /            |
| XRNR201610-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.335                              | 0.90                       | 0.88                       | /            |
| XRNR201610-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.479                              | 0.70                       | 0.74                       | /            |
| XRNR201610-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.816                              | 0.60                       | 0.52                       | /            |
| XRNR201610-10uH/M   | 10 $\pm$ 20%                    | 1.020                              | 0.50                       | 0.45                       | /            |

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|--------------------|---------------------------------|------------------------------------|----------------------------|----------------------------|--------------|
| XRNR252010-1.0uH/N | 1.0 $\pm$ 30%                   | 0.108                              | 1.85                       | 1.65                       | A            |
| XRNR252010-1.5uH/N | 1.5 $\pm$ 30%                   | 0.182                              | 1.80                       | 1.30                       | B            |
| XRNR252010-2.2uH/N | 2.2 $\pm$ 30%                   | 0.209                              | 1.20                       | 1.20                       | C            |
| XRNR252010-3.3uH/M | 3.3 $\pm$ 20%                   | 0.328                              | 1.05                       | 0.90                       | D            |
| XRNR252010-4.7uH/N | 4.7 $\pm$ 20%                   | 0.563                              | 0.95                       | 0.70                       | E            |
| XRNR252010-5.6uH/M | 5.6 $\pm$ 20%                   | 0.563                              | 0.80                       | 0.73                       | F            |
| XRNR252010-6.8uH/M | 6.8 $\pm$ 20%                   | 0.896                              | 0.78                       | 0.59                       | G            |
| XRNR252010-10uH/M  | 10 $\pm$ 20%                    | 1.092                              | 0.65                       | 0.50                       | H            |
| XRNR252010-15uH/M  | 15 $\pm$ 20%                    | 1.885                              | 0.46                       | 0.36                       | I            |
| XRNR252010-22uH/M  | 22 $\pm$ 20%                    | 2.400                              | 0.45                       | 0.30                       | J            |

Remark: 1. Inductance Tested at 1MHz, 0.25Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名   | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR (Max.)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | Marker<br>印字 |
|---------------------|---------------------------------|------------------------------------|----------------------------|----------------------------|--------------|
| XRNR252012-0.47uH/N | 0.47 $\pm$ 30%                  | 0.061                              | 3.82                       | 2.15                       | A            |
| XRNR252012-0.68uH/N | 0.68 $\pm$ 30%                  | 0.074                              | 3.28                       | 1.95                       | B            |
| XRNR252012-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.09                               | 2.59                       | 1.93                       | C            |
| XRNR252012-1.2uH/N  | 1.2 $\pm$ 30%                   | 0.129                              | 2.38                       | 1.46                       | D            |
| XRNR252012-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.147                              | 2.24                       | 1.40                       | E            |
| XRNR252012-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.216                              | 1.85                       | 1.15                       | F            |
| XRNR252012-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.264                              | 1.61                       | 1.04                       | G            |
| XRNR252012-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.377                              | 1.12                       | 0.84                       | H            |
| XRNR252012-5.6uH/M  | 5.6 $\pm$ 20%                   | 0.538                              | 1.11                       | 0.73                       | I            |
| XRNR252012-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.581                              | 0.98                       | 0.69                       | J            |
| XRNR252012-8.2uH/M  | 8.2 $\pm$ 20%                   | 0.658                              | 0.98                       | 0.65                       | N            |
| XRNR252012-10uH/M   | 10 $\pm$ 20%                    | 0.69                               | 0.79                       | 0.62                       | K            |
| XRNR252012-12uH/M   | 12 $\pm$ 20%                    | 1.075                              | 0.78                       | 0.51                       | O            |
| XRNR252012-15uH/M   | 15 $\pm$ 20%                    | 1.591                              | 0.68                       | 0.42                       | L            |
| XRNR252012-22uH/M   | 22 $\pm$ 20%                    | 1.976                              | 0.53                       | 0.38                       | M            |

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4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR3010-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.065                                    | 1.40                       | 1.45                       | 180                           |
| XRNR3010-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.080                                    | 1.27                       | 1.30                       | 120                           |
| XRNR3010-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.110                                    | 1.15                       | 1.09                       | 100                           |
| XRNR3010-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.145                                    | 0.97                       | 0.96                       | 74                            |
| XRNR3010-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.225                                    | 0.75                       | 0.77                       | 59                            |
| XRNR3010-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.305                                    | 0.55                       | 0.66                       | 42                            |
| XRNR3010-10uH/M   | 10 $\pm$ 20%                    | 0.400                                    | 0.55                       | 0.58                       | 39                            |
| XRNR3010-15uH/M   | 15 $\pm$ 20%                    | 0.610                                    | 0.42                       | 0.47                       | 30                            |
| XRNR3010-22uH/M   | 22 $\pm$ 20%                    | 0.930                                    | 0.35                       | 0.38                       | 28                            |
| XRNR3010-33uH/M   | 33 $\pm$ 20%                    | 1.550                                    | 0.29                       | 0.30                       | 18                            |
| XRNR3010-47uH/M   | 47 $\pm$ 20%                    | 1.950                                    | 0.22                       | 0.26                       | 18                            |

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|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR3012-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.040                                    | 1.87                       | 2.20                       | 120                           |
| XRNR3012-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.045                                    | 1.62                       | 2.01                       | 110                           |
| XRNR3012-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.075                                    | 1.20                       | 1.55                       | 84                            |
| XRNR3012-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.100                                    | 1.05                       | 1.36                       | 64                            |
| XRNR3012-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.120                                    | 0.90                       | 1.24                       | 61                            |
| XRNR3012-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.190                                    | 0.75                       | 0.98                       | 61                            |
| XRNR3012-10uH/M   | 10 $\pm$ 20%                    | 0.265                                    | 0.60                       | 0.83                       | 42                            |
| XRNR3012-15uH/M   | 15 $\pm$ 20%                    | 0.360                                    | 0.45                       | 0.71                       | 27                            |
| XRNR3012-22uH/M   | 22 $\pm$ 20%                    | 0.645                                    | 0.42                       | 0.53                       | 23                            |
| XRNR3012-33uH/M   | 33 $\pm$ 20%                    | 0.875                                    | 0.36                       | 0.46                       | 18                            |
| XRNR3012-47uH/M   | 47 $\pm$ 20%                    | 1.450                                    | 0.27                       | 0.35                       | 14                            |
| XRNR3012-68uH/M   | 68 $\pm$ 20%                    | 1.670                                    | 0.24                       | 0.33                       | 12                            |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C

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|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR3015-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.039                                    | 2.32                       | 2.35                       | 150                           |
| XRNR3015-1.2uH/N  | 1.2 $\pm$ 30%                   | 0.040                                    | 2.21                       | 1.95                       | 110                           |
| XRNR3015-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.050                                    | 2.00                       | 1.70                       | 100                           |
| XRNR3015-1.8uH/N  | 1.8 $\pm$ 30%                   | 0.050                                    | 1.75                       | 1.70                       | 92                            |
| XRNR3015-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.060                                    | 1.60                       | 1.60                       | 86                            |
| XRNR3015-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.080                                    | 1.32                       | 1.36                       | 68                            |
| XRNR3015-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.125                                    | 1.10                       | 1.09                       | 46                            |
| XRNR3015-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.200                                    | 0.85                       | 0.85                       | 39                            |
| XRNR3015-10uH/M   | 10 $\pm$ 20%                    | 0.250                                    | 0.72                       | 0.77                       | 41                            |
| XRNR3015-12uH/M   | 12 $\pm$ 20%                    | 0.320                                    | 0.70                       | 0.68                       | 32                            |
| XRNR3015-15uH/M   | 15 $\pm$ 20%                    | 0.350                                    | 0.66                       | 0.65                       | 30                            |
| XRNR3015-18uH/M   | 18 $\pm$ 20%                    | 0.430                                    | 0.56                       | 0.59                       | 23                            |
| XRNR3015-22uH/M   | 22 $\pm$ 20%                    | 0.460                                    | 0.52                       | 0.57                       | 23                            |
| XRNR3015-33uH/M   | 33 $\pm$ 20%                    | 0.820                                    | 0.44                       | 0.43                       | 20                            |
| XRNR3015-47uH/M   | 47 $\pm$ 20%                    | 1.250                                    | 0.35                       | 0.35                       | 14                            |

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|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR4012-0.82uH/N | 0.82 $\pm$ 30%                  | 0.050                                    | 3.02                       | 1.65                       | 150                           |
| XRNR4012-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.050                                    | 2.61                       | 1.65                       | 120                           |
| XRNR4012-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.065                                    | 2.10                       | 1.46                       | 90                            |
| XRNR4012-1.8uH/N  | 1.8 $\pm$ 30%                   | 0.080                                    | 2.12                       | 1.32                       | 88                            |
| XRNR4012-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.080                                    | 1.76                       | 1.32                       | 74                            |
| XRNR4012-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.110                                    | 1.72                       | 1.12                       | 60                            |
| XRNR4012-4.7uH/N  | 4.7 $\pm$ 30%                   | 0.125                                    | 1.15                       | 1.05                       | 50                            |
| XRNR4012-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.198                                    | 0.85                       | 0.84                       | 40                            |
| XRNR4012-10uH/M   | 10 $\pm$ 20%                    | 0.265                                    | 0.80                       | 0.77                       | 33                            |
| XRNR4012-12uH/M   | 12 $\pm$ 20%                    | 0.290                                    | 0.66                       | 0.70                       | 32                            |
| XRNR4012-15uH/M   | 15 $\pm$ 20%                    | 0.340                                    | 0.56                       | 0.64                       | 25                            |
| XRNR4012-22uH/M   | 22 $\pm$ 20%                    | 0.587                                    | 0.46                       | 0.49                       | 20                            |
| XRNR4012-33uH/M   | 33 $\pm$ 20%                    | 0.810                                    | 0.42                       | 0.42                       | 17                            |
| XRNR4012-47uH/M   | 47 $\pm$ 20%                    | 1.100                                    | 0.35                       | 0.37                       | 12                            |
| XRNR4012-68uH/M   | 68 $\pm$ 20%                    | 1.950                                    | 0.38                       | 0.27                       | 11                            |
| XRNR4012-82uH/M   | 82 $\pm$ 20%                    | 2.140                                    | 0.28                       | 0.26                       | 11                            |
| XRNR4012-100uH/M  | 100 $\pm$ 20%                   | 2.210                                    | 0.25                       | 0.25                       | 9.4                           |

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|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR4018-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.025                                    | 4.20                       | 2.00                       | 80                            |
| XRNR4018-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.030                                    | 3.35                       | 1.80                       | 65                            |
| XRNR4018-2.2uH/M  | 2.2 $\pm$ 20%                   | 0.045                                    | 2.70                       | 1.65                       | 52                            |
| XRNR4018-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.070                                    | 2.45                       | 1.23                       | 44                            |
| XRNR4018-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.090                                    | 1.70                       | 1.20                       | 34                            |
| XRNR4018-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.110                                    | 1.45                       | 1.06                       | 29                            |
| XRNR4018-10uH/M   | 10 $\pm$ 20%                    | 0.180                                    | 1.30                       | 0.84                       | 24                            |
| XRNR4018-15uH/M   | 15 $\pm$ 20%                    | 0.250                                    | 0.94                       | 0.65                       | 19                            |
| XRNR4018-22uH/M   | 22 $\pm$ 20%                    | 0.360                                    | 0.80                       | 0.59                       | 16                            |
| XRNR4018-33uH/M   | 33 $\pm$ 20%                    | 0.530                                    | 0.56                       | 0.49                       | 12                            |
| XRNR4018-47uH/M   | 47 $\pm$ 20%                    | 0.650                                    | 0.57                       | 0.42                       | 10                            |
| XRNR4018-68uH/M   | 68 $\pm$ 20%                    | 1.000                                    | 0.47                       | 0.32                       | 8.3                           |
| XRNR4018-100uH/M  | 100 $\pm$ 20%                   | 1.750                                    | 0.40                       | 0.25                       | 6.5                           |
| XRNR4018-150uH/M  | 150 $\pm$ 20%                   | 2.500                                    | 0.31                       | 0.22                       | 5.5                           |
| XRNR4018-220uH/M  | 220 $\pm$ 20%                   | 4.000                                    | 0.27                       | 0.17                       | 4.0                           |
| XRNR4018-330uH/M  | 330 $\pm$ 20%                   | 6.500                                    | 0.20                       | 0.14                       | 2.2                           |

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4. Operating Temperature :  $-25^\circ\text{C} \sim +125^\circ\text{C}$



● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR4020-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.029                                    | 4.78                       | 2.15                       | 75                            |
| XRNR4020-1.2uH/N  | 1.2 $\pm$ 30%                   | 0.029                                    | 5.10                       | 2.15                       | 72                            |
| XRNR4020-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.035                                    | 4.45                       | 1.98                       | 71                            |
| XRNR4020-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.040                                    | 3.40                       | 1.85                       | 49                            |
| XRNR4020-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.070                                    | 3.20                       | 1.40                       | 44                            |
| XRNR4020-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.075                                    | 2.35                       | 1.34                       | 42                            |
| XRNR4020-5.6uH/M  | 5.6 $\pm$ 20%                   | 0.090                                    | 2.20                       | 1.22                       | 30                            |
| XRNR4020-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.125                                    | 2.00                       | 1.04                       | 33                            |
| XRNR4020-8.2uH/M  | 8.2 $\pm$ 20%                   | 0.125                                    | 1.75                       | 1.04                       | 27                            |
| XRNR4020-10uH/M   | 10 $\pm$ 20%                    | 0.165                                    | 1.60                       | 0.90                       | 26                            |
| XRNR4020-15uH/M   | 15 $\pm$ 20%                    | 0.230                                    | 1.35                       | 0.77                       | 24                            |
| XRNR4020-22uH/M   | 22 $\pm$ 20%                    | 0.350                                    | 1.05                       | 0.62                       | 15                            |
| XRNR4020-33uH/M   | 33 $\pm$ 20%                    | 0.550                                    | 0.85                       | 0.49                       | 11                            |
| XRNR4020-47uH/M   | 47 $\pm$ 20%                    | 0.710                                    | 0.74                       | 0.44                       | 10                            |
| XRNRS4020-56uH/M  | 56 $\pm$ 20%                    | 0.800                                    | 0.66                       | 0.41                       | 10                            |
| XRNR4020-68uH/M   | 68 $\pm$ 20%                    | 1.060                                    | 0.61                       | 0.36                       | 7.7                           |
| XRNR4020-82uH/M   | 82 $\pm$ 20%                    | 1.170                                    | 0.50                       | 0.34                       | 7.2                           |
| XRNR4020-100uH/M  | 100 $\pm$ 20%                   | 1.550                                    | 0.48                       | 0.31                       | 6.3                           |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.
4. Operating Temperature :  $-25^\circ\text{C} \sim +125^\circ\text{C}$

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR4030-1uH/N    | 1.0 $\pm$ 30%                   | 0.016                                    | 5.26                       | 4.14                       | 70                            |
| XRNR4030-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.020                                    | 4.84                       | 3.34                       | 62                            |
| XRNR4030-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.030                                    | 4.40                       | 2.95                       | 52                            |
| XRNR4030-3.3uH/M  | 3.3 $\pm$ 20%                   | 0.040                                    | 3.30                       | 2.40                       | 38                            |
| XRNR4030-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.060                                    | 2.90                       | 2.00                       | 31                            |
| XRNR4030-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.090                                    | 2.75                       | 1.60                       | 24                            |
| XRNR4030-10uH/M   | 10 $\pm$ 20%                    | 0.100                                    | 1.95                       | 1.50                       | 21                            |
| XRNR4030-15uH/M   | 15 $\pm$ 20%                    | 0.190                                    | 1.65                       | 1.11                       | 16                            |
| XRNR4030-22uH/M   | 22 $\pm$ 20%                    | 0.225                                    | 1.30                       | 1.00                       | 10                            |
| XRNR4030-33uH/M   | 33 $\pm$ 20%                    | 0.330                                    | 1.10                       | 0.84                       | 10                            |
| XRNR4030-47uH/M   | 47 $\pm$ 20%                    | 0.445                                    | 0.95                       | 0.72                       | 8.4                           |
| XRNR4030-68uH/M   | 68 $\pm$ 20%                    | 0.868                                    | 0.72                       | 0.52                       | 7                             |
| XRNR4030-100uH/M  | 100 $\pm$ 20%                   | 1.150                                    | 0.60                       | 0.45                       | 5.6                           |
| XRNR4030-150uH/M  | 150 $\pm$ 20%                   | 1.800                                    | 0.50                       | 0.3                        | 4                             |
| XRNR4030-220uH/M  | 220 $\pm$ 20%                   | 2.500                                    | 0.40                       | 0.35                       | 4.2                           |
| XRNR4030-330uH/M  | 330 $\pm$ 20%                   | 4.000                                    | 0.30                       | 0.25                       | 6.8                           |
| XRNR4030-470uH/M  | 470 $\pm$ 20%                   | 7.200                                    | 0.30                       | 0.2                        | 2                             |
| XRNR4030-680uH/M  | 680 $\pm$ 20%                   | 7.580                                    | 0.19                       | 0.14                       | 1.2                           |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta$ T =40 $^{\circ}$ C ) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR5020-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.020                                    | 4.10                       | 3.80                       | 114                           |
| XRNR5020-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.030                                    | 4.10                       | 3.20                       | 68                            |
| XRNR5020-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.040                                    | 3.20                       | 2.70                       | 57                            |
| XRNR5020-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.050                                    | 2.55                       | 2.30                       | 46                            |
| XRNR5020-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.057                                    | 2.50                       | 2.20                       | 37                            |
| XRNR5020-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.083                                    | 2.05                       | 1.80                       | 30                            |
| XRNR5020-8.2uH/M  | 8.2 $\pm$ 20%                   | 0.098                                    | 1.85                       | 1.65                       | 26                            |
| XRNR5020-10uH/M   | 10 $\pm$ 20%                    | 0.120                                    | 1.70                       | 1.55                       | 24                            |
| XRNR5020-15uH/M   | 15 $\pm$ 20%                    | 0.165                                    | 1.35                       | 1.25                       | 20                            |
| XRNR5020-18uH/M   | 18 $\pm$ 20%                    | 0.200                                    | 1.25                       | 1.15                       | 16                            |
| XRNR5020-22uH/M   | 22 $\pm$ 20%                    | 0.250                                    | 1.15                       | 1.10                       | 14                            |
| XRNR5020-33uH/M   | 33 $\pm$ 20%                    | 0.400                                    | 0.92                       | 0.90                       | 10                            |
| XRNR5020-47uH/M   | 47 $\pm$ 20%                    | 0.580                                    | 0.77                       | 0.75                       | 7                             |
| XRNRS5020-68uH/M  | 68 $\pm$ 20%                    | 0.740                                    | 0.65                       | 0.64                       | 6                             |
| XRNR5020-100uH/M  | 100 $\pm$ 20%                   | 1.100                                    | 0.53                       | 0.40                       | 6                             |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ( $\Delta$ T =40 $^{\circ}$ C ) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR5040-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.012                                    | 7.35                       | 4.90                       | 117                           |
| XRNR5040-1.2uH/N  | 1.2 $\pm$ 30%                   | 0.016                                    | 6.50                       | 4.15                       | 110                           |
| XRNR5040-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.018                                    | 6.30                       | 4.00                       | 86                            |
| XRNR5040-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.019                                    | 4.90                       | 3.80                       | 50                            |
| XRNR5040-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.024                                    | 3.95                       | 3.40                       | 32                            |
| XRNR5040-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.032                                    | 3.50                       | 3.00                       | 28                            |
| XRNR5040-5.6uH/M  | 5.6 $\pm$ 20%                   | 0.035                                    | 3.00                       | 2.80                       | 27                            |
| XRNR5040-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.043                                    | 2.90                       | 2.50                       | 21                            |
| XRNR5040-10uH/M   | 10 $\pm$ 20%                    | 0.064                                    | 2.35                       | 2.10                       | 18                            |
| XRNR5040-15uH/M   | 15 $\pm$ 20%                    | 0.086                                    | 2.00                       | 2.00                       | 13                            |
| XRNR5040-22uH/M   | 22 $\pm$ 20%                    | 0.129                                    | 1.60                       | 1.50                       | 11                            |
| XRNRS5040-33uH/M  | 33 $\pm$ 20%                    | 0.188                                    | 1.30                       | 1.20                       | 9.1                           |
| XRNR5040-47uH/M   | 47 $\pm$ 20%                    | 0.272                                    | 1.10                       | 1.00                       | 6.7                           |
| XRNR5040-68uH/M   | 68 $\pm$ 20%                    | 0.400                                    | 0.90                       | 0.80                       | 5.7                           |
| XRNRS5040-100uH/M | 100 $\pm$ 20%                   | 0.560                                    | 0.75                       | 0.70                       | 4.7                           |
| XRNRS5040-150uH/M | 150 $\pm$ 20%                   | 0.750                                    | 0.65                       | 0.60                       | 5                             |
| XRNR5040-220uH/M  | 220 $\pm$ 20%                   | 1.280                                    | 0.40                       | 0.38                       | 3                             |
| XRNR5040-1mH/M    | 1000 $\pm$ 20%                  | 6.200                                    | 0.25                       | 0.25                       | 2                             |
| XRNR5040-2.2mH/M  | 2200 $\pm$ 20%                  | 13.000                                   | 0.10                       | 0.10                       | 2                             |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR6020-0.68uH/N | 0.68 $\pm$ 30%                  | 0.017                                    | 6.55                       | 3.80                       | 115                           |
| XRNR6020-0.82uH/N | 0.82 $\pm$ 30%                  | 0.017                                    | 5.30                       | 3.80                       | 110                           |
| XRNR6020-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.020                                    | 4.15                       | 3.50                       | 100                           |
| XRNR6020-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.022                                    | 4.25                       | 3.20                       | 79                            |
| XRNR6020-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.028                                    | 3.75                       | 2.75                       | 61                            |
| XRNR6020-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.035                                    | 3.15                       | 2.60                       | 51                            |
| XRNR6020-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.058                                    | 3.00                       | 2.00                       | 41                            |
| XRNR6020-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.079                                    | 2.20                       | 1.80                       | 31                            |
| XRNR6020-10uH/M   | 10 $\pm$ 20%                    | 0.105                                    | 1.75                       | 1.40                       | 27                            |
| XRNR6020-12uH/M   | 12 $\pm$ 20%                    | 0.120                                    | 1.45                       | 1.30                       | 25                            |
| XRNR6020-15uH/M   | 15 $\pm$ 20%                    | 0.145                                    | 1.20                       | 1.20                       | 21                            |
| XRNR6020-18uH/M   | 18 $\pm$ 20%                    | 0.180                                    | 1.20                       | 1.08                       | 18                            |
| XRNR6020-22uH/M   | 22 $\pm$ 20%                    | 0.204                                    | 1.05                       | 1.00                       | 16                            |
| XRNR6020-33uH/M   | 33 $\pm$ 20%                    | 0.300                                    | 0.95                       | 0.84                       | 11                            |
| XRNR6020-47uH/M   | 47 $\pm$ 20%                    | 0.430                                    | 0.70                       | 0.80                       | 10                            |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ C$ ) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR6028-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.012                                    | 5.75                       | 5.20                       | 70                            |
| XRNR6028-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.015                                    | 6.00                       | 4.58                       | 65                            |
| XRNR6028-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.020                                    | 5.10                       | 3.75                       | 48                            |
| XRNR6028-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.025                                    | 4.15                       | 3.48                       | 41                            |
| XRNR6028-4.7uH/N  | 4.7 $\pm$ 30%                   | 0.030                                    | 3.00                       | 3.08                       | 35                            |
| XRNR6028-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.047                                    | 2.60                       | 2.40                       | 27                            |
| XRNR6028-10uH/M   | 10 $\pm$ 20%                    | 0.072                                    | 2.04                       | 1.95                       | 23                            |
| XRNR6028-12uH/M   | 12 $\pm$ 20%                    | 0.080                                    | 1.80                       | 1.85                       | 18                            |
| XRNR6028-15uH/M   | 15 $\pm$ 20%                    | 0.125                                    | 1.75                       | 1.45                       | 18                            |
| XRNR6028-18uH/M   | 18 $\pm$ 20%                    | 0.120                                    | 1.52                       | 1.45                       | 15                            |
| XRNR6028-22uH/M   | 22 $\pm$ 20%                    | 0.140                                    | 1.45                       | 1.40                       | 14                            |
| XRNR6028-33uH/M   | 33 $\pm$ 20%                    | 0.185                                    | 1.35                       | 1.22                       | 12                            |
| XRNR6028-47uH/M   | 47 $\pm$ 20%                    | 0.315                                    | 1.15                       | 1.06                       | 9.5                           |
| XRNR6028-68uH/M   | 68 $\pm$ 20%                    | 0.360                                    | 0.80                       | 0.86                       | 7.7                           |
| XRNR6028-82uH/M   | 82 $\pm$ 20%                    | 0.500                                    | 0.80                       | 0.70                       | 7.7                           |
| XRNR6028-100uH/M  | 100 $\pm$ 20%                   | 0.500                                    | 0.65                       | 0.70                       | 7.1                           |
| XRNR6028-1mH/M    | 1000 $\pm$ 20%                  | 5.800                                    | 0.18                       | 0.20                       | 1.5                           |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^{\circ}C$ ) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR6045-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.011                                    | 9.85                       | 5.14                       | 100                           |
| XRNR6045-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.012                                    | 8.80                       | 4.95                       | 65                            |
| XRNR6045-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.014                                    | 6.75                       | 4.60                       | 52                            |
| XRNR6045-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.024                                    | 5.90                       | 3.70                       | 32                            |
| XRNR6045-4.7uH/M  | 4.7 $\pm$ 20%                   | 0.031                                    | 4.97                       | 3.30                       | 24                            |
| XRNR6045-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.035                                    | 3.90                       | 3.00                       | 20                            |
| XRNR6045-10uH/M   | 10 $\pm$ 20%                    | 0.048                                    | 3.20                       | 2.45                       | 15                            |
| XRNR6045-15uH/M   | 15 $\pm$ 20%                    | 0.068                                    | 2.50                       | 2.05                       | 12                            |
| XRNR6045-22uH/M   | 22 $\pm$ 20%                    | 0.089                                    | 2.05                       | 1.80                       | 10                            |
| XRNR6045-33uH/M   | 33 $\pm$ 20%                    | 0.137                                    | 1.65                       | 1.45                       | 7.8                           |
| XRNR6045-47uH/M   | 47 $\pm$ 20%                    | 0.200                                    | 1.40                       | 1.20                       | 6.4                           |
| XRNR6045-56uH/M   | 56 $\pm$ 20%                    | 0.221                                    | 1.30                       | 1.10                       | 6.4                           |
| XRNR6045-68uH/M   | 68 $\pm$ 20%                    | 0.289                                    | 1.20                       | 1.00                       | 6.4                           |
| XRNR6045-100uH/M  | 100 $\pm$ 20%                   | 0.433                                    | 0.95                       | 0.80                       | 4.2                           |
| XRNR6045-120uH/M  | 120 $\pm$ 20%                   | 0.484                                    | 0.85                       | 0.77                       | 4.2                           |
| XRNR6045-150uH/M  | 150 $\pm$ 20%                   | 0.580                                    | 0.80                       | 0.70                       | 4.2                           |
| XRNR6045-220uH/M  | 220 $\pm$ 20%                   | 0.834                                    | 0.70                       | 0.59                       | 3.5                           |
| XRNR6045-330uH/M  | 330 $\pm$ 20%                   | 1.270                                    | 0.57                       | 0.57                       | 2.8                           |
| XRNR6045-470uH/M  | 470 $\pm$ 20%                   | 1.800                                    | 0.50                       | 0.42                       | 2                             |
| XRNR6045-680uH/M  | 680 $\pm$ 20%                   | 2.500                                    | 0.42                       | 0.33                       | 1.7                           |
| XRNR6045-1mH/M    | 1000 $\pm$ 20%                  | 4.500                                    | 0.30                       | 0.30                       | 1.4                           |
| XRNR6045-1.5mH/M  | 1500 $\pm$ 20%                  | 6.500                                    | 0.24                       | 0.21                       | 0.8                           |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ C$ ) from 25°C ambient.

4. Operating Temperature : -25°C ~ +125°C

● SPECIFICATION TABLE:

| PART NUMBER<br>品名 | INDUCTANCE<br>( $\mu$ H)<br>电感值 | DCR ( $\pm$ 30%)<br>( $\Omega$ )<br>直流电阻 | Isat (Max.)<br>(A)<br>饱和电流 | Irms (Max.)<br>(A)<br>额定电流 | S.R.F.(Min.)<br>(MHz)<br>自谐频率 |
|-------------------|---------------------------------|--|----------------------------|----------------------------|-------------------------------|
| XRNR8040-0.82uH/N | 0.82 $\pm$ 30%                  | 0.008                                    | 13.80                      | 6.30                       | 94                            |
| XRNR8040-1.0uH/N  | 1.0 $\pm$ 30%                   | 0.008                                    | 9.85                       | 6.30                       | 89                            |
| XRNR8040-1.5uH/N  | 1.5 $\pm$ 30%                   | 0.010                                    | 8.15                       | 5.65                       | 67                            |
| XRNR8040-2.2uH/N  | 2.2 $\pm$ 30%                   | 0.012                                    | 7.10                       | 5.15                       | 41                            |
| XRNR8040-3.3uH/N  | 3.3 $\pm$ 30%                   | 0.017                                    | 6.50                       | 4.40                       | 27                            |
| XRNR8040-4.7uH/N  | 4.7 $\pm$ 30%                   | 0.019                                    | 5.90                       | 4.10                       | 24                            |
| XRNR8040-6.8uH/M  | 6.8 $\pm$ 20%                   | 0.024                                    | 4.55                       | 3.60                       | 20                            |
| XRNR8040-8.2uH/M  | 8.2 $\pm$ 20%                   | 0.026                                    | 4.20                       | 3.45                       | 17                            |
| XRNR8040-10uH/M   | 10 $\pm$ 20%                    | 0.042                                    | 3.60                       | 3.30                       | 15                            |
| XRNR8040-15uH/M   | 15 $\pm$ 20%                    | 0.047                                    | 2.95                       | 2.60                       | 12                            |
| XRNRS8040-18uH/M  | 18 $\pm$ 20%                    | 0.053                                    | 2.70                       | 2.40                       | 11                            |
| XRNRS8040-22uH/M  | 22 $\pm$ 20%                    | 0.069                                    | 2.40                       | 2.10                       | 9.5                           |
| XRNRS8040-33uH/M  | 33 $\pm$ 20%                    | 0.097                                    | 2.05                       | 1.80                       | 7.8                           |
| XRNRS8040-47uH/M  | 47 $\pm$ 20%                    | 0.136                                    | 1.75                       | 1.55                       | 6.4                           |
| XRNRS8040-68uH/M  | 68 $\pm$ 20%                    | 0.196                                    | 1.45                       | 1.25                       | 4.9                           |
| XRNRS8040-82uH/M  | 82 $\pm$ 20%                    | 0.225                                    | 1.30                       | 1.15                       | 4.9                           |
| XRNRS8040-100uH/M | 100 $\pm$ 20%                   | 0.290                                    | 1.15                       | 1.00                       | 4.2                           |
| XRNRS8040-120uH/M | 120 $\pm$ 20%                   | 0.334                                    | 1.05                       | 0.95                       | 3.5                           |
| XRNRS8040-150uH/M | 150 $\pm$ 20%                   | 0.410                                    | 1.10                       | 0.85                       | 3.5                           |
| XRNRS8040-220uH/M | 220 $\pm$ 20%                   | 0.599                                    | 0.85                       | 0.80                       | 3.5                           |
| XRNRS8040-330uH/M | 330 $\pm$ 20%                   | 0.889                                    | 0.68                       | 0.64                       | 2.8                           |
| XRNRS8040-470uH/M | 470 $\pm$ 20%                   | 1.260                                    | 0.60                       | 0.54                       | 2.1                           |
| XRNRS8040-680uH/M | 680 $\pm$ 20%                   | 2.040                                    | 0.50                       | 0.45                       | 1.7                           |
| XRNRS8040-1mH/M   | 1000 $\pm$ 20%                  | 2.800                                    | 0.40                       | 0.35                       | 1.4                           |

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ C$ ) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C



● PACKAGING SPECIFICATION :



| Type       | Tape Dimension (mm) |      |      |      |     |    | Reel Dimension (mm) |     |    | Quantity (Pcs/Reel) |
|------------|---------------------|------|------|------|-----|----|---------------------|-----|----|---------------------|
|            | W                   | A0   | B0   | K0   | D   | P  | A                   | B   | C  |                     |
| XRNR201610 | 8                   | 1.9  | 2.3  | 1.2  | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR252010 | 8                   | 2.4  | 2.9  | 1.25 | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR252012 | 8                   | 2.35 | 2.65 | 1.6  | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR3010   | 8                   | 3.3  | 3.3  | 1.4  | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR3012   | 8                   | 3.3  | 3.3  | 1.6  | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR3015   | 8                   | 3.3  | 3.3  | 1.9  | 1.5 | 4  | 178                 | 58  | 13 | 2000                |
| XRNR4012   | 12                  | 4.3  | 4.3  | 1.4  | 1.5 | 8  | 330                 | 100 | 13 | 4000                |
| XRNR4018   | 12                  | 4.3  | 4.3  | 2.2  | 1.5 | 8  | 330                 | 100 | 13 | 3000                |
| XRNR4020   | 12                  | 4.3  | 4.3  | 2.4  | 1.5 | 8  | 330                 | 100 | 13 | 3000                |
| XRNR4030   | 12                  | 4.3  | 4.3  | 3.4  | 1.5 | 8  | 330                 | 100 | 13 | 2000                |
| XRNR5020   | 12                  | 5.4  | 5.4  | 2.4  | 1.5 | 8  | 330                 | 100 | 13 | 3000                |
| XRNR5040   | 12                  | 5.4  | 5.4  | 4.4  | 1.5 | 8  | 330                 | 100 | 13 | 1500                |
| XRNR6020   | 16                  | 6.4  | 6.4  | 2.4  | 1.5 | 8  | 330                 | 100 | 13 | 2500                |
| XRNR6028   | 16                  | 6.4  | 6.4  | 3.2  | 1.5 | 8  | 330                 | 100 | 13 | 2000                |
| XRNR6045   | 16                  | 6.4  | 6.4  | 4.8  | 1.5 | 8  | 330                 | 100 | 13 | 1500                |
| XRNR8040   | 16                  | 8.4  | 8.4  | 4.4  | 1.5 | 12 | 330                 | 100 | 13 | 1000                |

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