

Type 3615 Series

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This is a high current, wound inductor, based on phenolic, iron or ferrite cores (depending on the value required). The terminations are of solder coated copper. Values from 0.1µH to 2.7µH have a phenolic core, 3.3µH to 100µH an iron core and 120 µH to 1000 µH a ferrite core.

We can also offer custom design solutions in the 3615 package. Please enquire.

Key Features

- High Current Winding
- Versatile Size - 11.4mm x 5mm
- Temperature Range -55°C to +100°C
- Supplied in Standard Carrier Tape
- Suitable for Dip and Wave Solder
- Insulation 1000 M Ohms Minimum
- Available from Stock

Characteristics - Electrical Style

| Core | Body Marking | Inductance (µH) ±10% | Q Min | Test Freq. (MHz) | Self Resonant Freq. (MHz) | DC Resistance @ 20°C (Max Ohms) | Direct Current @ 70°C (Max mA) |
|----------|--------------|----------------------|-------|------------------|---------------------------|---------------------------------|--------------------------------|
| Phenolic | uH10-K | 0.10 | 50 | 25 | 550 | 0.027 | 3500 |
| | uH12-K | 0.12 | 50 | 25 | 550 | 0.028 | 2870 |
| | uH15-K | 0.15 | 50 | 25 | 510 | 0.030 | 2770 |
| | uH18-K | 0.18 | 50 | 25 | 460 | 0.033 | 2640 |
| | uH22-K | 0.22 | 50 | 25 | 415 | 0.035 | 2570 |
| | uH27-K | 0.27 | 50 | 25 | 380 | 0.043 | 2310 |
| | uH33-K | 0.33 | 50 | 25 | 350 | 0.050 | 2150 |
| | uH39-K | 0.39 | 50 | 25 | 320 | 0.065 | 1880 |
| | uH47-K | 0.47 | 50 | 25 | 300 | 0.080 | 1700 |
| | uH56-K | 0.56 | 50 | 25 | 270 | 0.10 | 1520 |
| | uH68-K | 0.68 | 50 | 25 | 250 | 0.12 | 1385 |
| | uH82-K | 0.82 | 50 | 25 | 220 | 0.18 | 1130 |
| | 1uH0-K | 1.0 | 50 | 25 | 200 | 0.25 | 960 |
| | 1uH2-K | 1.2 | 35 | 7.9 | 180 | 0.40 | 760 |
| | 1uH5-K | 1.5 | 35 | 7.9 | 170 | 0.48 | 690 |
| | 1uH8-K | 1.8 | 35 | 7.9 | 150 | 0.74 | 555 |
| | 2uH2-K | 2.2 | 35 | 7.9 | 140 | 0.90 | 505 |
| | 2uH7-K | 2.7 | 35 | 7.9 | 120 | 1.10 | 455 |
| | 3uH3-K | 3.3 | 35 | 7.9 | 70 | 0.14 | 1280 |
| | 3uH9-K | 3.9 | 35 | 7.9 | 65 | 0.16 | 1200 |
| 4uH7-K | 4.7 | 35 | 7.9 | 60 | 0.21 | 1050 | |
| 5uH6-K | 5.6 | 35 | 7.9 | 50 | 0.28 | 905 | |
| 6uH8-K | 6.8 | 35 | 7.9 | 50 | 0.37 | 785 | |
| 8uH2-K | 8.2 | 35 | 7.9 | 48 | 0.40 | 760 | |
| 10uH-K | 10 | 35 | 7.9 | 42 | 0.60 | 620 | |
| 12uH-K | 12 | 50 | 2.5 | 35 | 0.85 | 520 | |
| 15uH-K | 15 | 55 | 2.5 | 30 | 1.2 | 438 | |
| Iron | 18uH-K | 18 | 55 | 2.5 | 30 | 1.8 | 358 |
| | 22uH-K | 22 | 55 | 2.5 | 24 | 2.0 | 340 |
| | 27uH-K | 27 | 55 | 2.5 | 22 | 2.7 | 290 |
| | 33uH-K | 33 | 55 | 2.5 | 20 | 3.4 | 259 |
| | 39uH-K | 39 | 55 | 2.5 | 18 | 3.8 | 245 |
| | 47uH-K | 47 | 55 | 2.5 | 16 | 3.4 | 259 |
| | 56uH-K | 56 | 55 | 2.5 | 15 | 3.7 | 249 |
| | 68uH-K | 68 | 55 | 2.5 | 13 | 4.0 | 239 |
| | 82uH-K | 82 | 55 | 2.5 | 10 | 4.4 | 228 |
| | mH10-K | 100 | 55 | 2.5 | 8.0 | 4.9 | 216 |
| Ferrite | mH12-K | 120 | 60 | 0.79 | 6.8 | 5.6 | 202 |
| | mH15-K | 150 | 60 | 0.79 | 6.4 | 6.2 | 192 |
| | mH18-K | 180 | 60 | 0.79 | 6.0 | 6.9 | 182 |
| | mH22-K | 220 | 60 | 0.79 | 5.8 | 7.5 | 175 |
| | mH27-K | 270 | 60 | 0.79 | 5.6 | 8.2 | 167 |
| | mH33-K | 330 | 60 | 0.79 | 5.0 | 9.1 | 159 |
| | mH39-K | 390 | 60 | 0.79 | 4.5 | 10.0 | 151 |
| | mH47-K | 470 | 60 | 0.79 | 4.0 | 11.0 | 144 |
| | mH56-K | 560 | 60 | 0.79 | 3.6 | 12.3 | 136 |
| | mH68-K | 680 | 60 | 0.79 | 3.4 | 13.7 | 129 |
| mH82-K | 820 | 60 | 0.79 | 3.1 | 15.1 | 123 | |
| 1mH0-K | 1000 | 60 | 0.79 | 2.5 | 16.5 | 118 | |

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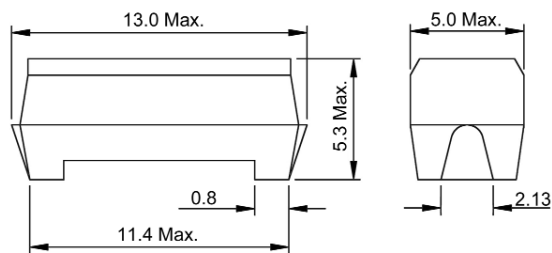
Characteristics - Electrical

| | |
|------------------------------------|-------------------|
| Operating Temperature: | -55°C to +100°C |
| Temperature Rise: | 30°C maximum |
| Power Dissipation at 70°C ambient: | 0.3 Watts |
| Environmental classification: | 55/100/56 |
| Weight: | 0.7 grams maximum |

Packaging

Parts are supplied Taped and Reeled on 13" Reels in quantities of 1500 pieces

Dimensions



How to Order

| | | | |
|--------------------|-------------------|-------------------------|------------------|
| 3615 | A | 1R5 | K |
| Common Part | Style | Inductance | Tolerance |
| 3615 | A - Standard Part | Value Code See Table | K - ±10% |