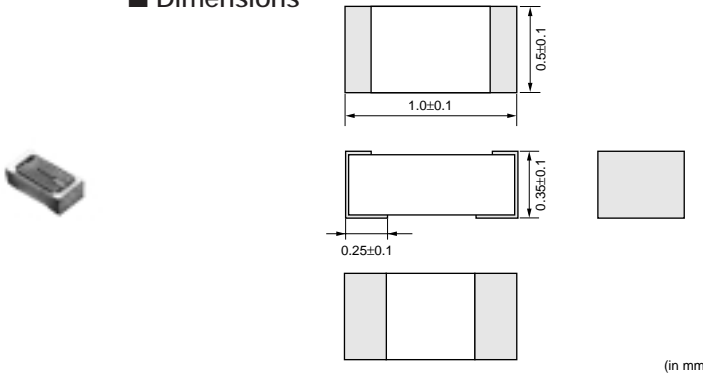


# LQP15M Series (0402 Size)



## 0402 Size, Tight Inductance Tolerance

### ■ Dimensions



### ■ Packaging

| Code | Packaging        | Minimum Quantity |
|------|------------------|------------------|
| D    | 180mm Paper Tape | 10000            |
| J    | 330mm Paper Tape | 50000            |
| B    | Bulk(Bag)        | 500              |

Refer to pages from p.167 to p.170 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |     |
|----------------|--------------|----------------|---------------|-----------------------|----------|----------------|---------------------------------|-----|
| LQP15MN1N0B02□ | 1.0nH±0.1nH  | 500MHz         | 400mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N0W02□ | 1.0nH±0.05nH | 500MHz         | 400mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N1B02□ | 1.1nH±0.1nH  | 500MHz         | 390mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N1W02□ | 1.1nH±0.05nH | 500MHz         | 390mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N2B02□ | 1.2nH±0.1nH  | 500MHz         | 390mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N2W02□ | 1.2nH±0.05nH | 500MHz         | 390mA         | 0.1ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N3B02□ | 1.3nH±0.1nH  | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N3W02□ | 1.3nH±0.05nH | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N4W02□ | 1.4nH±0.05nH | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N5B02□ | 1.5nH±0.1nH  | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N5W02□ | 1.5nH±0.05nH | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N6B02□ | 1.6nH±0.1nH  | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N6W02□ | 1.6nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N7W02□ | 1.7nH±0.05nH | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N8B02□ | 1.8nH±0.1nH  | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN1N8W02□ | 1.8nH±0.05nH | 500MHz         | 280mA         | 0.2ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN1N9W02□ | 1.9nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N0B02□ | 2.0nH±0.1nH  | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN2N0W02□ | 2.0nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N1W02□ | 2.1nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N2B02□ | 2.2nH±0.1nH  | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN2N2W02□ | 2.2nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N3W02□ | 2.3nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N4B02□ | 2.4nH±0.1nH  | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN2N4W02□ | 2.4nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N5W02□ | 2.5nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N6W02□ | 2.6nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N7B02□ | 2.7nH±0.1nH  | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN2N7W02□ | 2.7nH±0.05nH | 500MHz         | 220mA         | 0.3ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN2N8W02□ | 2.8nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |

Operating Temperature Range: -40°C to +85°C Only for reflow soldering.

Continued on the following page.

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Inductor for Power Lines (Power Inductor)

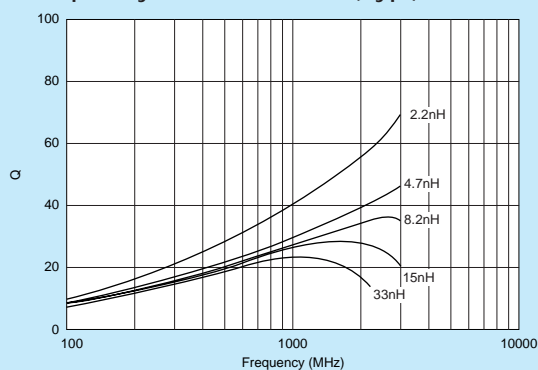
Inductor for Low Frequency Circuits

RF Inductor  
Film Non-Magnetic Type

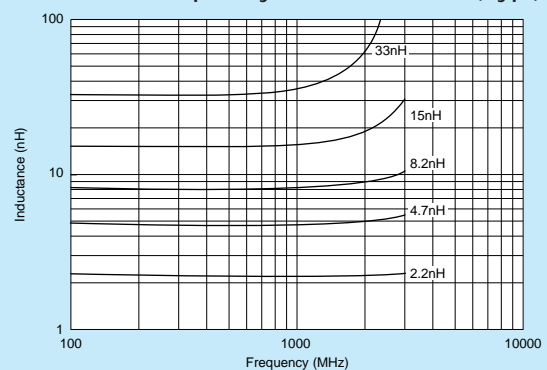
| Part Number    | Inductance   | Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |     |
|----------------|--------------|----------------|---------------|-----------------------|----------|----------------|---------------------------------|-----|
| LQP15MN2N9W02□ | 2.9nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N0B02□ | 3.0nH±0.1nH  | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN3N0W02□ | 3.0nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N1W02□ | 3.1nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N2W02□ | 3.2nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N3B02□ | 3.3nH±0.1nH  | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN3N3W02□ | 3.3nH±0.05nH | 500MHz         | 190mA         | 0.4ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N4W02□ | 3.4nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N5W02□ | 3.5nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N6B02□ | 3.6nH±0.1nH  | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN3N6W02□ | 3.6nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N7W02□ | 3.7nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N8W02□ | 3.8nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN3N9B02□ | 3.9nH±0.1nH  | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN3N9W02□ | 3.9nH±0.05nH | 500MHz         | 170mA         | 0.5ohm                | 13       | 500MHz         | 6000MHz                         |     |
| LQP15MN4N3B02□ | 4.3nH±0.1nH  | 500MHz         | 160mA         | 0.6ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN4N7B02□ | 4.7nH±0.1nH  | 500MHz         | 160mA         | 0.6ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN5N1B02□ | 5.1nH±0.1nH  | 500MHz         | 140mA         | 0.7ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN5N6B02□ | 5.6nH±0.1nH  | 500MHz         | 140mA         | 0.7ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN6N2B02□ | 6.2nH±0.1nH  | 500MHz         | 130mA         | 0.9ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN6N8B02□ | 6.8nH±0.1nH  | 500MHz         | 130mA         | 0.9ohm                | 13       | 500MHz         | 6000MHz                         | Kit |
| LQP15MN7N5B02□ | 7.5nH±0.1nH  | 500MHz         | 110mA         | 1.1ohm                | 13       | 500MHz         | 5500MHz                         | Kit |
| LQP15MN8N2B02□ | 8.2nH±0.1nH  | 500MHz         | 110mA         | 1.1ohm                | 13       | 500MHz         | 5500MHz                         | Kit |
| LQP15MN9N1B02□ | 9.1nH±0.1nH  | 500MHz         | 100mA         | 1.3ohm                | 13       | 500MHz         | 4500MHz                         | Kit |
| LQP15MN10NG02□ | 10nH±2%      | 500MHz         | 100mA         | 1.3ohm                | 13       | 500MHz         | 4500MHz                         | Kit |
| LQP15MN12NG02□ | 12nH±2%      | 500MHz         | 90mA          | 1.6ohm                | 13       | 500MHz         | 3700MHz                         | Kit |
| LQP15MN15NG02□ | 15nH±2%      | 500MHz         | 90mA          | 1.8ohm                | 13       | 500MHz         | 3300MHz                         | Kit |
| LQP15MN18NG02□ | 18nH±2%      | 500MHz         | 80mA          | 2.0ohm                | 13       | 500MHz         | 3100MHz                         | Kit |
| LQP15MN22NG02□ | 22nH±2%      | 500MHz         | 70mA          | 2.6ohm                | 13       | 500MHz         | 2800MHz                         | Kit |
| LQP15MN27NG02□ | 27nH±2%      | 500MHz         | 70mA          | 3.1ohm                | 13       | 500MHz         | 2500MHz                         | Kit |
| LQP15MN33NG02□ | 33nH±2%      | 500MHz         | 60mA          | 3.8ohm                | 13       | 500MHz         | 2100MHz                         | Kit |

Operating Temperature Range: -40°C to +85°C Only for reflow soldering.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

| Part Number | Inductance (nH) (Typ.) |        |        |        |        | Q (Typ.) |        |        |        |        |
|-------------|------------------------|--------|--------|--------|--------|----------|--------|--------|--------|--------|
|             | 800MHz                 | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP15MN1N0  | 1.0                    | 1.0    | 1.0    | 1.0    | 1.0    | 50       | 55     | 73     | 76     | 85     |
| LQP15MN1N1  | 1.1                    | 1.1    | 1.1    | 1.1    | 1.1    | 44       | 47     | 70     | 76     | 83     |
| LQP15MN1N2  | 1.2                    | 1.2    | 1.2    | 1.2    | 1.2    | 43       | 47     | 69     | 76     | 82     |
| LQP15MN1N3  | 1.3                    | 1.3    | 1.3    | 1.3    | 1.3    | 39       | 43     | 56     | 60     | 65     |
| LQP15MN1N4  | 1.4                    | 1.4    | 1.4    | 1.4    | 1.4    | 39       | 41     | 51     | 54     | 58     |
| LQP15MN1N5  | 1.5                    | 1.5    | 1.5    | 1.5    | 1.5    | 38       | 40     | 49     | 51     | 54     |
| LQP15MN1N6  | 1.6                    | 1.6    | 1.6    | 1.6    | 1.6    | 26       | 28     | 37     | 39     | 42     |
| LQP15MN1N7  | 1.7                    | 1.7    | 1.7    | 1.7    | 1.7    | 37       | 40     | 48     | 49     | 53     |
| LQP15MN1N8  | 1.8                    | 1.8    | 1.8    | 1.8    | 1.8    | 35       | 37     | 46     | 49     | 52     |
| LQP15MN1N9  | 1.9                    | 1.9    | 1.9    | 1.9    | 1.9    | 34       | 36     | 46     | 49     | 52     |
| LQP15MN2N0  | 2.0                    | 2.0    | 2.0    | 2.0    | 2.0    | 34       | 36     | 47     | 50     | 53     |
| LQP15MN2N1  | 2.1                    | 2.1    | 2.1    | 2.1    | 2.1    | 35       | 37     | 47     | 49     | 53     |
| LQP15MN2N2  | 2.2                    | 2.2    | 2.2    | 2.2    | 2.2    | 36       | 38     | 48     | 51     | 56     |
| LQP15MN2N3  | 2.3                    | 2.3    | 2.3    | 2.3    | 2.3    | 36       | 38     | 47     | 49     | 53     |
| LQP15MN2N4  | 2.4                    | 2.4    | 2.4    | 2.4    | 2.4    | 35       | 37     | 47     | 49     | 52     |
| LQP15MN2N5  | 2.5                    | 2.5    | 2.5    | 2.5    | 2.5    | 35       | 37     | 47     | 49     | 53     |
| LQP15MN2N6  | 2.6                    | 2.6    | 2.6    | 2.6    | 2.6    | 35       | 37     | 47     | 49     | 52     |
| LQP15MN2N7  | 2.7                    | 2.7    | 2.7    | 2.7    | 2.7    | 35       | 37     | 48     | 49     | 53     |
| LQP15MN2N8  | 2.8                    | 2.8    | 2.8    | 2.8    | 2.8    | 35       | 37     | 47     | 49     | 53     |
| LQP15MN2N9  | 2.9                    | 2.9    | 2.9    | 2.9    | 2.9    | 33       | 35     | 44     | 46     | 49     |
| LQP15MN3N0  | 3.0                    | 3.0    | 3.0    | 3.0    | 3.0    | 29       | 31     | 41     | 44     | 48     |
| LQP15MN3N1  | 3.1                    | 3.1    | 3.1    | 3.1    | 3.1    | 28       | 29     | 39     | 42     | 45     |
| LQP15MN3N2  | 3.2                    | 3.2    | 3.2    | 3.2    | 3.2    | 27       | 28     | 35     | 36     | 38     |
| LQP15MN3N3  | 3.3                    | 3.3    | 3.3    | 3.3    | 3.4    | 28       | 29     | 38     | 39     | 43     |
| LQP15MN3N4  | 3.4                    | 3.4    | 3.4    | 3.4    | 3.5    | 28       | 29     | 37     | 39     | 41     |
| LQP15MN3N5  | 3.5                    | 3.5    | 3.5    | 3.5    | 3.6    | 28       | 29     | 37     | 38     | 40     |
| LQP15MN3N6  | 3.6                    | 3.6    | 3.6    | 3.7    | 3.7    | 27       | 28     | 35     | 39     | 41     |
| LQP15MN3N7  | 3.7                    | 3.7    | 3.7    | 3.8    | 3.8    | 27       | 28     | 35     | 38     | 41     |
| LQP15MN3N8  | 3.8                    | 3.8    | 3.8    | 3.9    | 3.9    | 28       | 29     | 38     | 39     | 42     |
| LQP15MN3N9  | 3.9                    | 3.9    | 3.9    | 4.0    | 4.0    | 28       | 29     | 37     | 38     | 41     |
| LQP15MN4N3  | 4.3                    | 4.3    | 4.3    | 4.4    | 4.5    | 28       | 30     | 38     | 40     | 42     |
| LQP15MN4N7  | 4.7                    | 4.7    | 4.8    | 4.9    | 5.1    | 28       | 29     | 38     | 39     | 41     |
| LQP15MN5N1  | 5.1                    | 5.1    | 5.2    | 5.3    | 5.5    | 26       | 28     | 36     | 38     | 40     |
| LQP15MN5N6  | 5.6                    | 5.6    | 5.8    | 6.0    | 6.2    | 23       | 25     | 32     | 33     | 34     |
| LQP15MN6N2  | 6.2                    | 6.2    | 6.5    | 6.6    | 6.9    | 23       | 25     | 32     | 33     | 34     |
| LQP15MN6N8  | 6.8                    | 6.8    | 7.1    | 7.4    | 7.7    | 24       | 26     | 33     | 34     | 35     |
| LQP15MN7N5  | 7.5                    | 7.5    | 7.9    | 8.2    | 8.6    | 24       | 25     | 32     | 33     | 34     |
| LQP15MN8N2  | 8.2                    | 8.2    | 8.7    | 9.0    | 9.5    | 24       | 25     | 32     | 33     | 34     |
| LQP15MN9N1  | 9.1                    | 9.1    | 9.8    | 10     | 11     | 23       | 25     | 31     | 32     | 33     |
| LQP15MN10N  | 10                     | 10     | 11     | 12     | 13     | 24       | 26     | 30     | 31     | 31     |
| LQP15MN12N  | 12                     | 12     | 13     | 14     | 16     | 25       | 26     | 29     | 29     | 28     |
| LQP15MN15N  | 15                     | 15     | 18     | 19     | 23     | 23       | 25     | 26     | 27     | 25     |
| LQP15MN18N  | 18                     | 18     | 23     | -      | -      | 22       | 23     | 24     | -      | -      |
| LQP15MN22N  | 22                     | 23     | 29     | -      | -      | 22       | 23     | 22     | -      | -      |
| LQP15MN27N  | 28                     | 28     | 38     | -      | -      | 22       | 23     | 21     | -      | -      |
| LQP15MN33N  | 34                     | 35     | -      | -      | -      | 21       | 22     | -      | -      | -      |

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