

# Multilayer Chip Inductor

**AMAX**  
ELECTRONICS COMPANY

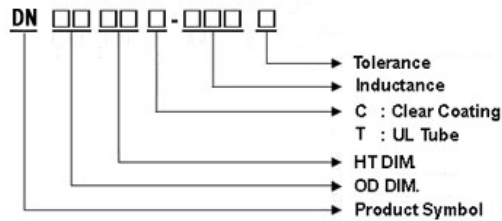
## DN Series



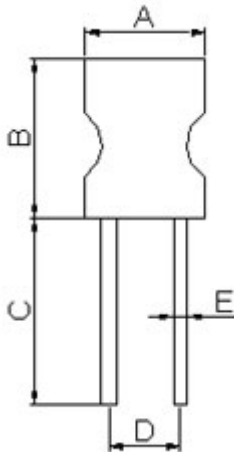
### Features

- Low cost
- Wide range of inductance
- High reliability

### Product Identification



### Shapes and Dimensions



Dimension in mm

|          |                  |
|----------|------------------|
| <b>A</b> | 6 <sup>+0</sup>  |
| <b>B</b> | 9 <sup>+0</sup>  |
| <b>C</b> | 15 <sup>-0</sup> |
| <b>D</b> | 2±1.0            |
| <b>E</b> | 0.5φ             |

#### Note:

- lead-free
- AMAX uses UL tube on DN series to avoid damage when wave soldering.
- Customized specifications are also welcome.

### Electrical Parameters

| Part Number   | Inductance (μH) | Test Frequency (MHz) | Q Min | D.C Resistance (Ω) Max | IDC (mA) |
|---------------|-----------------|----------------------|-------|------------------------|----------|
| DN0406□ -1R0K | 1.0             | 7.96                 | 50    | 0.15                   | 300      |
| DN0406□ -1R2K | 1.2             | 7.96                 | 50    | 0.15                   | 300      |
| DN0406□ -1R5K | 1.5             | 7.96                 | 55    | 0.20                   | 300      |
| DN0406□ -1R8K | 1.8             | 7.96                 | 70    | 0.20                   | 300      |
| DN0406□ -2R2K | 2.2             | 7.96                 | 75    | 0.25                   | 300      |
| DN0406□ -2R7K | 2.7             | 7.96                 | 80    | 0.25                   | 300      |
| DN0406□ -3R3K | 3.3             | 7.96                 | 80    | 0.25                   | 300      |
| DN0406□ -3R9K | 3.9             | 7.96                 | 80    | 0.30                   | 300      |
| DN0406□ -4R7K | 4.7             | 7.96                 | 75    | 0.30                   | 300      |
| DN0406□ -5R6K | 5.6             | 7.96                 | 75    | 0.35                   | 300      |
| DN0406□ -6R8K | 6.8             | 7.96                 | 70    | 0.35                   | 300      |
| DN0406□ -8R2K | 8.2             | 7.96                 | 70    | 0.35                   | 300      |
| DN0406□ -100K | 10              | 2.52                 | 80    | 0.60                   | 300      |
| DN0406□ -120K | 12              | 2.52                 | 80    | 0.65                   | 200      |
| DN0406□ -150K | 15              | 2.52                 | 80    | 0.75                   | 200      |
| DN0406□ -180K | 18              | 2.52                 | 75    | 0.85                   | 200      |
| DN0406□ -220K | 22              | 2.52                 | 75    | 1.00                   | 200      |
| DN0406□ -270K | 27              | 2.52                 | 75    | 1.20                   | 200      |
| DN0406□ -330K | 33              | 2.52                 | 75    | 1.30                   | 200      |
| DN0406□ -390K | 39              | 2.52                 | 70    | 1.50                   | 200      |
| DN0406□ -470K | 47              | 2.52                 | 70    | 1.60                   | 200      |
| DN0406□ -560K | 56              | 2.52                 | 65    | 1.65                   | 200      |
| DN0406□ -680K | 68              | 2.52                 | 60    | 1.80                   | 200      |
| DN0406□ -820K | 82              | 2.52                 | 55    | 1.85                   | 200      |
| DN0406□ -101K | 100             | 0.796                | 80    | 2.00                   | 200      |
| DN0406□ -121K | 120             | 0.796                | 80    | 2.50                   | 100      |
| DN0406□ -151K | 150             | 0.796                | 80    | 3.00                   | 100      |
| DN0406□ -181K | 180             | 0.796                | 75    | 3.50                   | 100      |
| DN0406□ -221K | 220             | 0.796                | 75    | 4.00                   | 100      |
| DN0406□ -271K | 270             | 0.796                | 70    | 5.00                   | 100      |
| DN0406□ -331K | 330             | 0.796                | 70    | 6.00                   | 50       |
| DN0406□ -391K | 390             | 0.796                | 70    | 6.50                   | 50       |
| DN0406□ -471K | 470             | 0.796                | 70    | 7.50                   | 50       |
| DN0406□ -561K | 560             | 0.796                | 70    | 8.00                   | 50       |
| DN0406□ -681K | 680             | 0.796                | 70    | 8.50                   | 50       |
| DN0406□ -821K | 820             | 0.796                | 70    | 9.50                   | 50       |

- L & Q: HP4285+HP42851A
- RDC: CHEN HWA502BC
- SRF: HP4287A
- IDC: CHEN HWA CH1061+301A

# Multilayer Chip Inductor

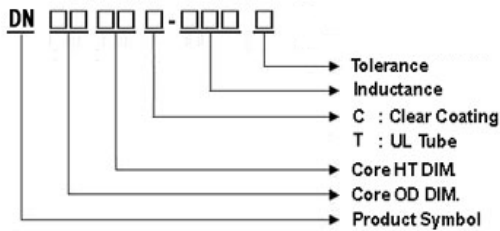
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## Features

- Low cost
- Wide range of inductance
- High reliability

## Product Identification



## Electrical Parameters

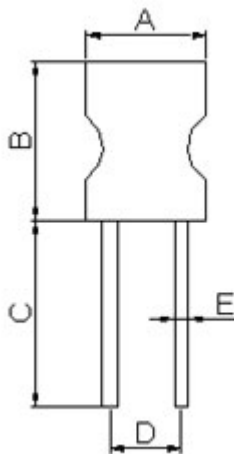
| Part Number   | Inductance (mH) | Test Frequency (KHz) | Q Min | D.C Resistance (Ω) Max | IDC (mA) |
|---------------|-----------------|----------------------|-------|------------------------|----------|
| DN0608□-102K  | 1.0             | 252                  | 80    | 4.0                    | 110      |
| DN0608□-122K  | 1.2             | 252                  | 80    | 4.7                    | 95       |
| DN0608□-152K  | 1.5             | 252                  | 80    | 5.9                    | 90       |
| DN0608□-182K  | 1.8             | 252                  | 80    | 6.0                    | 80       |
| DN0608□-222K  | 2.2             | 252                  | 80    | 7.3                    | 70       |
| DN0608□-272K  | 2.7             | 252                  | 80    | 9                      | 65       |
| DN0608□-332K  | 3.3             | 252                  | 80    | 10                     | 60       |
| DN0608□-392K  | 3.9             | 252                  | 80    | 11                     | 55       |
| DN0608□-472K  | 4.7             | 252                  | 80    | 15                     | 52       |
| SL0608 □-562K | 5.6             | 252                  | 80    | 16                     | 50       |
| DN0608□-682K  | 6.8             | 252                  | 80    | 22                     | 45       |
| DN0608□-822K  | 8.2             | 252                  | 80    | 25                     | 40       |
| DN0608□-103K  | 10              | 79.6                 | 80    | 32.5                   | 35       |
| DN0608□-123K  | 12              | 79.6                 | 80    | 53                     | 32       |
| DN0608□-153K  | 15              | 79.6                 | 80    | 62                     | 30       |
| DN0608□-183K  | 18              | 79.6                 | 80    | 68                     | 28       |
| DN0608□-223K  | 22              | 79.6                 | 80    | 78                     | 25       |
| DN0608□-273K  | 27              | 79.6                 | 80    | 90                     | 22       |
| DN0608□-333K  | 33              | 79.6                 | 80    | 150                    | 20       |
| DN0608□-393K  | 39              | 79.6                 | 80    | 160                    | 16       |
| DN0608□-473K  | 47              | 79.6                 | 80    | 190                    | 15       |

- L & Q: HP4285+HP42851A
- RDC: CHEN HWA502BC

## Note:

- lead-free
- AMAX uses UL tube on DN series o avoid damage w hen wave soldering.
- Customized specifications are also welcome.

## Shapes and Dimensions



Dimension in mm

|   |                  |
|---|------------------|
| A | 8 <sup>+0</sup>  |
| B | 12 <sup>+0</sup> |
| C | 15 <sup>0</sup>  |
| D | 3.5±1.5          |
| E | 0.65φ            |

# Multilayer Chip Inductor

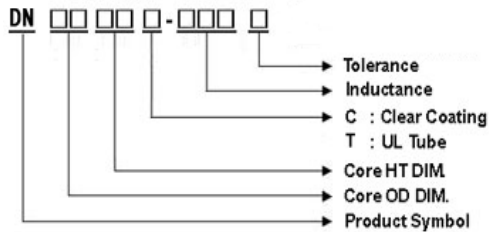
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## Features

- Low cost
- Wide range of inductance
- High reliability

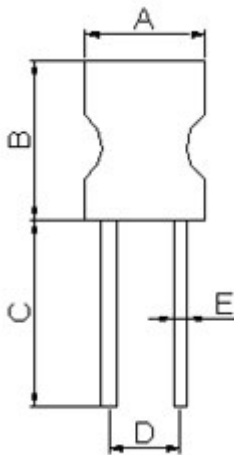
## Product Identification



## Electrical Parameters

| Part Number  | Inductance<br>( $\mu$ H) | Test<br>Frequency<br>(KHz), 1V | D.C<br>Resistance<br>( $\Omega$ ) Max | IDC<br>(A) |
|--------------|--------------------------|--------------------------------|---------------------------------------|------------|
| DN1016□-4R7K | 4.7                      | 1                              | 0.018                                 | 10         |
| DN1016□-6R8K | 6.8                      | 1                              | 0.020                                 | 10         |
| DN1016□-8R2K | 8.2                      | 1                              | 0.022                                 | 10         |
| DN1016□-100K | 10                       | 1                              | 0.027                                 | 7.6        |
| DN1016□-120K | 12                       | 1                              | 0.024                                 | 7.5        |
| DN1016□-150K | 15                       | 1                              | 0.031                                 | 6.5        |
| DN1016□-180K | 18                       | 1                              | 0.039                                 | 6.0        |
| DN1016□-220K | 22                       | 1                              | 0.039                                 | 5.4        |
| DN1016□-330K | 33                       | 1                              | 0.047                                 | 4.4        |
| DN1016□-470K | 47                       | 1                              | 0.053                                 | 3.8        |
| DN1016□-560K | 56                       | 1                              | 0.068                                 | 3.4        |
| DN1016□-680K | 68                       | 1                              | 0.078                                 | 3.0        |
| DN1016□-101K | 100                      | 1                              | 0.099                                 | 2.5        |
| DN1016□-121K | 120                      | 1                              | 0.128                                 | 2.0        |
| DN1016□-151K | 150                      | 1                              | 0.182                                 | 1.8        |
| DN1016□-181K | 180                      | 1                              | 0.195                                 | 1.6        |
| DN1016□-221K | 220                      | 1                              | 0.312                                 | 1.4        |
| DN1016□-271K | 270                      | 1                              | 0.32                                  | 1.3        |
| DN1016□-331K | 330                      | 1                              | 0.39                                  | 1.2        |
| DN1016□-391K | 390                      | 1                              | 0.40                                  | 1.1        |
| DN1016□-471K | 470                      | 1                              | 0.49                                  | 1.0        |
| DN1016□-561K | 560                      | 1                              | 0.52                                  | 0.95       |
| DN1016□-681K | 680                      | 1                              | 0.88                                  | 0.80       |
| DN1016□-821K | 820                      | 1                              | 0.89                                  | 0.75       |
| DN1016□-102K | 1000                     | 1                              | 1.50                                  | 0.65       |
| DN1016□-122K | 1200                     | 1                              | 1.15                                  | 0.60       |
| DN1016□-152K | 1500                     | 1                              | 1.3                                   | 0.52       |
| DN1016□-182K | 1800                     | 1                              | 1.9                                   | 0.50       |
| DN1016□-222K | 2200                     | 1                              | 2.0                                   | 0.45       |
| DN1016□-332K | 3300                     | 1                              | 4.6                                   | 0.35       |
| DN1016□-472K | 4700                     | 1                              | 5.6                                   | 0.30       |
| DN1016□-682K | 6800                     | 1                              | 7.0                                   | 0.25       |
| DN1016□-752K | 7500                     | 1                              | 7.7                                   | 0.24       |
| DN1016□-822K | 8200                     | 1                              | 10.4                                  | 0.23       |
| DN1016□-103K | 10000                    | 1                              | 11.7                                  | 0.18       |
| DN1016□-123K | 12000                    | 1                              | 13.8                                  | 0.16       |
| DN1016□-153K | 15000                    | 1                              | 15.6                                  | 0.15       |
| DN1016□-223K | 22000                    | 1                              | 23.4                                  | 0.10       |

## Shapes and Dimensions



Dimension in mm

|   |                  |
|---|------------------|
| A | 13 <sup>+0</sup> |
| B | 19 <sup>+0</sup> |
| C | 20 <sup>-0</sup> |
| D | 6.5±1.5          |
| E | 0.8 $\phi$       |

## Note:

- lead-free
- AMAX has UL tube on DN Series to avoid damage when wave soldering.
- Customized specifications are also welcome.

- L: HP4263B
- RDC: CHEN HWA502BC
- IDC: CHEN HWA CH1061+301A