

# HPC104N (11.5x10x4)

SMD, Magnetically Shielded Power Inductor

**HALO**  
ELECTRONICS, INC.



## Product Features:

- Designed for switch mode power supplies
- Ideal for real estate sensitive applications such as cell phones and disc drives.
- Magnetically shielded design minimizes flux interferences.
- Available in tape and reel packaging.
- Please contact your representative for custom designs.

| Part Number    | Inductance (μH) <sup>2</sup> | DCR (mΩ) TYP | DCR (mΩ) MAX | Heat Rating Current (ADC) <sup>3</sup> | Saturation Current (ADC) <sup>4</sup> | Lead Width ±0.5 |
|----------------|------------------------------|--------------|--------------|----------------------------------------|---------------------------------------|-----------------|
| HPC104N-R22MTR | 0.22                         | 0.9          | 1.1          | 35                                     | 54                                    | 3.0             |
| HPC104N-R36MTR | 0.36                         | 1.0          | 1.3          | 34                                     | 41                                    | 3.0             |
| HPC104N-R47MTR | 0.47                         | 1.4          | 1.5          | 28                                     | 36                                    | 3.0             |
| HPC104N-R56MTR | 0.56                         | 1.5          | 1.8          | 25                                     | 34                                    | 3.0             |
| HPC104N-R68MTR | 0.68                         | 2.4          | 2.7          | 20                                     | 32                                    | 3.0             |
| HPC104N-R88MTR | 0.88                         | 2.1          | 2.4          | 21                                     | 32                                    | 3.0             |
| HPC104N-1R0MTR | 1.0                          | 3            | 3.3          | 19                                     | 26                                    | 3.0             |
| HPC104N-1R5MTR | 1.5                          | 3.8          | 4.2          | 16                                     | 20                                    | 3.0             |
| HPC104N-2R2MTR | 2.2                          | 6.6          | 7            | 12                                     | 18                                    | 1.8             |
| HPC104N-3R3MTR | 3.3                          | 9.5          | 13           | 10                                     | 14                                    | 1.8             |
| HPC104N-4R7MTR | 4.7                          | 13           | 15.5         | 9                                      | 12                                    | 1.8             |
| HPC104N-5R6MTR | 5.6                          | 18.4         | 20           | 7                                      | 12                                    | 1.8             |
| HPC104N-6R8MTR | 6.8                          | 20           | 22           | 7                                      | 11                                    | 1.8             |
| HPC104N-8R2MTR | 8.2                          | 23.2         | 25.5         | 7                                      | 10                                    | 1.8             |
| HPC104N-10RMTR | 10.0                         | 32.1         | 35           | 5                                      | 9                                     | 1.8             |

## Notes:

1. Operating Temperature: -55°C to +125°C
2. Inductance tolerance (100kHz, 0.25V, 0ADC): ±20%
3. DC current that will cause approximate 40°C rise in temperature
4. DC current that will cause inductance (L) drop by 20% from nominal
5. Part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions
6. Frequency range up to 1.0 MHz



# HPC073N (7.5x6.5x3)

SMD, Magnetically Shielded Power Inductor



## Product Features:

- Designed for switch mode power supplies
- Ideal for real estate sensitive applications such as cell phones and disc drives.
- Magnetically shielded design minimizes flux interferences.
- Available in tape and reel packaging.
- Please contact your representative for custom designs.

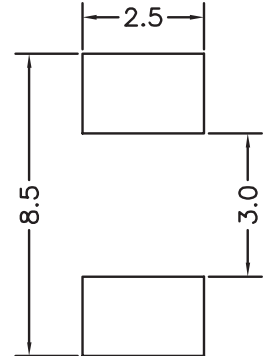
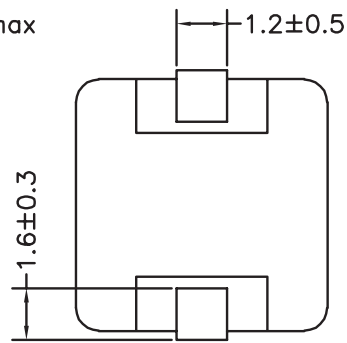
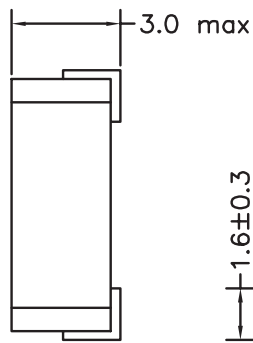
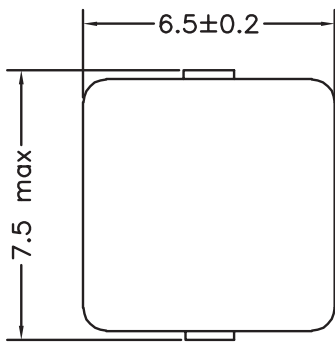
| Part Number    | ( $\mu$ H) <sup>2</sup> | DCR (m $\Omega$ )<br>TYP | DCR (m $\Omega$ )<br>MAX | Heat Rating<br>Current (ADC) <sup>3</sup> | Saturation<br>Current (ADC) <sup>4</sup> |
|----------------|-------------------------|--------------------------|--------------------------|-------------------------------------------|------------------------------------------|
| HPC073N-R22MTR | 0.22                    | 2.3                      | 2.7                      | 20                                        | 34                                       |
| HPC073N-R33MTR | 0.33                    | 2.8                      | 3.4                      | 18                                        | 22                                       |
| HPC073N-R36MTR | 0.36                    | 2.8                      | 3.4                      | 18                                        | 22                                       |
| HPC073N-R47MTR | 0.47                    | 3.7                      | 4.4                      | 17                                        | 20                                       |
| HPC073N-R56MTR | 0.56                    | 3.8                      | 4.5                      | 16                                        | 17                                       |
| HPC073N-R68MTR | 0.68                    | 4.5                      | 5                        | 14                                        | 17                                       |
| HPC073N-R82MTR | 0.82                    | 5.8                      | 6.1                      | 13                                        | 17                                       |
| HPC073N-1R0MTR | 1.0                     | 6.3                      | 7                        | 12                                        | 15                                       |
| HPC073N-1R5MTR | 1.5                     | 8                        | 10                       | 11                                        | 13                                       |
| HPC073N-2R2MTR | 2.2                     | 17.5                     | 19                       | 7                                         | 11                                       |
| HPC073N-3R3MTR | 3.3                     | 20                       | 24                       | 7                                         | 9                                        |
| HPC073N-4R7MTR | 4.7                     | 26                       | 29                       | 5.3                                       | 7                                        |
| HPC073N-5R6MTR | 5.6                     | 38                       | 40                       | 4.5                                       | 6                                        |
| HPC073N-6R8MTR | 6.8                     | 40                       | 42                       | 4.5                                       | 5.5                                      |
| HPC073N-8R2MTR | 8.2                     | 42                       | 45                       | 4.2                                       | 5                                        |

## Notes:

1. Operating Temperature: -55°C to +125°C
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5. Part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions
6. Frequency range up to 1.0 MHz

## HPC073N (7.5x6.5x3)

### Package Dimensions (mm)

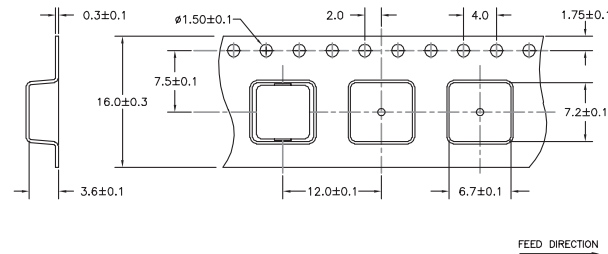


### Tape & Reel Specifications

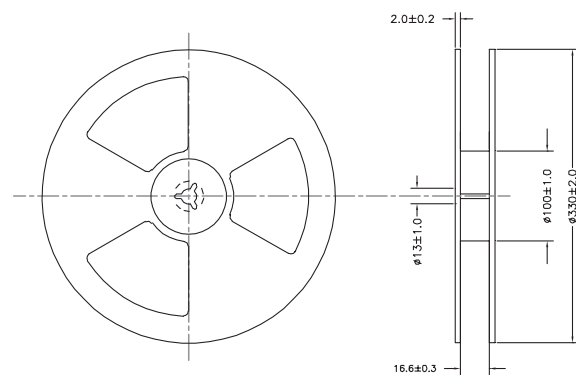
#### HPC073N-

1000 PARTS PER REEL

#### CARRIER TAPE DIMENSIONS (mm)



#### REEL DIMENSIONS (mm)



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(650) 903-3800  
[www.haloelectronics.com](http://www.haloelectronics.com)

HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.

# HPC042N (4.8x4x2)

SMD, Magnetically Shielded Power Inductor

**HALO**  
ELECTRONICS, INC.



## Product Features:

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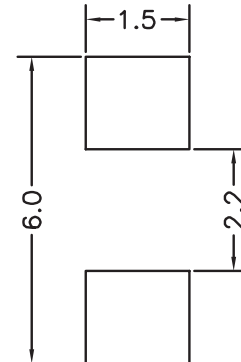
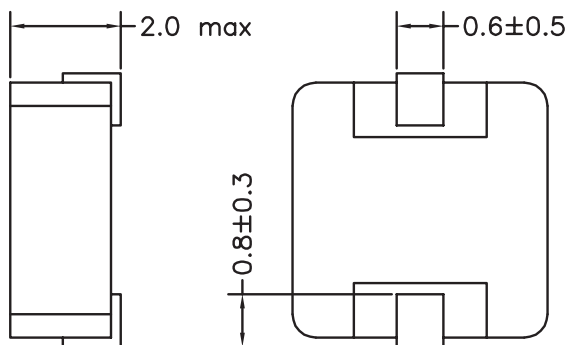
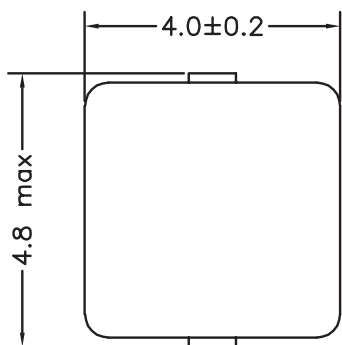
| Part Number    | ( $\mu$ H) <sup>2</sup> | DCR (m $\Omega$ )<br>TYP | DCR (m $\Omega$ )<br>MAX | Heat Rating<br>Current (ADC) <sup>3</sup> | Saturation<br>Current (ADC) <sup>4</sup> |
|----------------|-------------------------|--------------------------|--------------------------|-------------------------------------------|------------------------------------------|
| HPC042N-R22MTR | 0.22                    | 7.8                      | 9.3                      | 9                                         | 14                                       |
| HPC042N-R36MTR | 0.36                    | 9.5                      | 12                       | 8                                         | 11                                       |
| HPC042N-R47MTR | 0.47                    | 10                       | 13                       | 7                                         | 10                                       |
| HPC042N-R56MTR | 0.56                    | 11.8                     | 13.5                     | 7                                         | 8                                        |
| HPC042N-R68MTR | 0.68                    | 13.5                     | 16                       | 6.3                                       | 7                                        |
| HPC042N-R82MTR | 0.82                    | 16                       | 18                       | 5.5                                       | 6.5                                      |
| HPC042N-R88MTR | 0.88                    | 16                       | 18                       | 5.5                                       | 6.5                                      |
| HPC042N-1R0MTR | 1.0                     | 18                       | 21.6                     | 5                                         | 6                                        |
| HPC042N-1R2MTR | 1.2                     | 19                       | 22                       | 5                                         | 5                                        |
| HPC042N-1R5MTR | 1.5                     | 22                       | 26                       | 5                                         | 5                                        |
| HPC042N-2R2MTR | 2.2                     | 33                       | 40                       | 4.5                                       | 5                                        |
| HPC042N-3R3MTR | 3.3                     | 42                       | 48                       | 3.6                                       | 4.3                                      |
| HPC042N-4R7MTR | 4.7                     | 68                       | 75                       | 2.7                                       | 4                                        |

## Notes:

1. Operating Temperature: -55°C to +125°C
2. Inductance tolerance (100kHz, 0.25V, 0ADC):  $\pm 20\%$
3. DC current that will cause approximate 40°C rise in temperature
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5. Part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions
6. Frequency range up to 1.0 MHz

## HPC042N (4.8x4x2)

### Package Dimensions (mm)



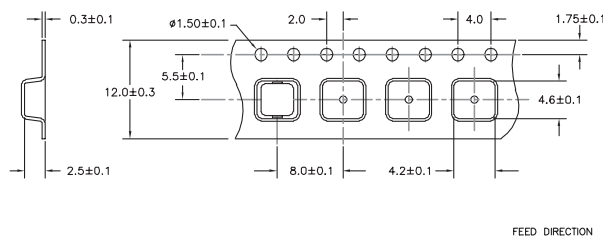
### Recommended Solder Pad

## Tape & Reel Specifications

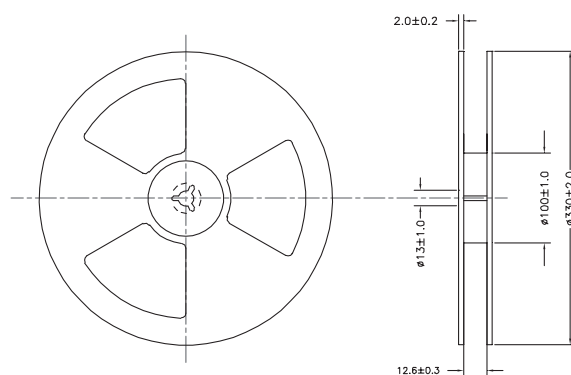
### HPC042N-

2000 PARTS PER REEL

### CARRIER TAPE DIMENSIONS (mm)



### REEL DIMENSIONS (mm)



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