

HALO ELECTRONICS, INC. HPC104N (11.5x10x4) SMD, Magnetically Shielded Power Inductor

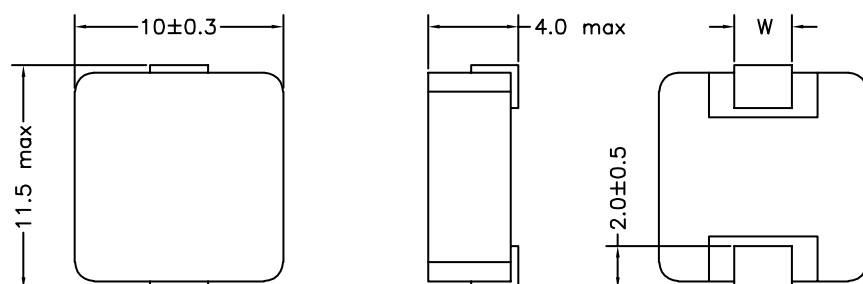
HALO Electronics offers a broad line of small surface mount power inductors designed for switch mode power supplies. The HPC series is ideal for real estate sensitive applications such as cell phones and disc drives. The magnetically shielded design minimizes flux interferences. This standard series is LEAD-free and RoHS compliant. Available in tape and reel packaging. Please contact your nearest HALO representative for custom designs.



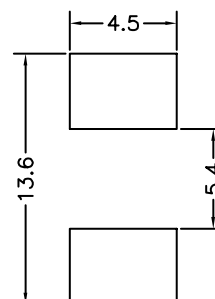
HPC104N (11.5x10x4)
SMD, Magnetically Shielded Power Inductor



**Package Dimensions
(mm)**



**Recommended
Solder Pad**



ELECTRICAL SPECIFICATIONS (25°C)

Part Number	L (μ H) ²	DCR (m Ω) TYP	DCR (m Ω) MAX	Heat Rating Current (ADC) ³	Saturation Current (ADC) ⁴	W ± 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

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
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

HALO

HPC073N (7.5x6.5x3)
SMD, Magnetically Shielded Power Inductor

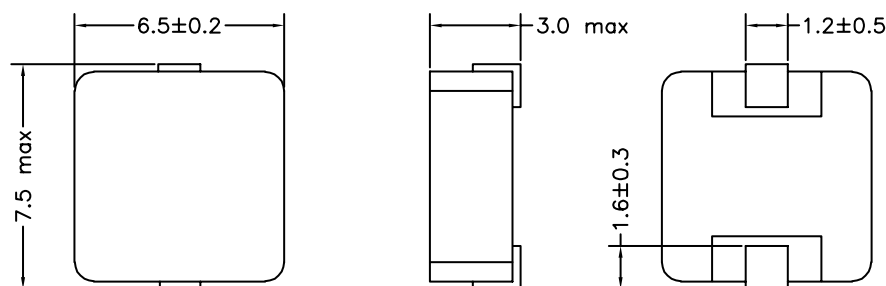
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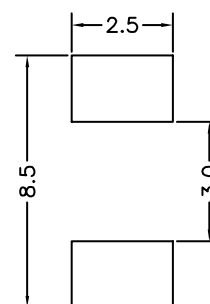
HPC073N (7.5x6.5x3)
SMD, Magnetically Shielded Power Inductor



**Package Dimensions
(mm)**



**Recommended
Solder Pad**



ELECTRICAL SPECIFICATIONS (25°C)

Part Number	L (μ H) ²	DCR (m Ω) TYP	DCR (m Ω) MAX	Heat Rating Current (ADC) ³	Saturation Current (ADC) ⁴
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

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
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

HALO ELECTRONICS, INC. HPC042N (4.8x4x2) SMD, Magnetically Shielded Power Inductor

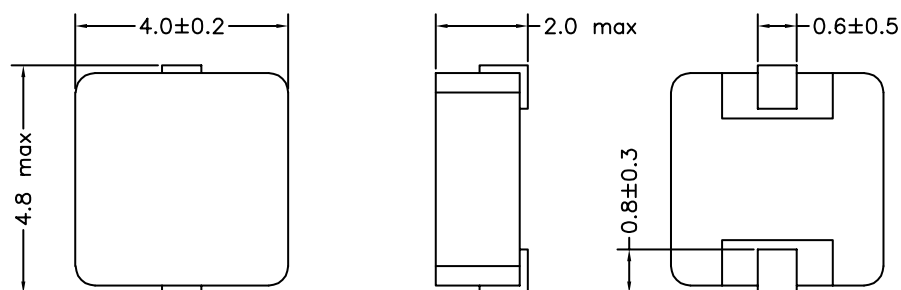
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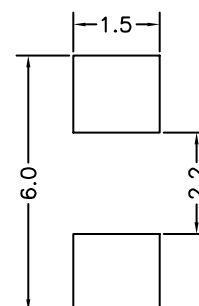
HPC042N (4.8x4x2)
SMD, Magnetically Shielded Power Inductor



**Package Dimensions
(mm)**



**Recommended
Solder Pad**



ELECTRICAL SPECIFICATIONS (25°C)

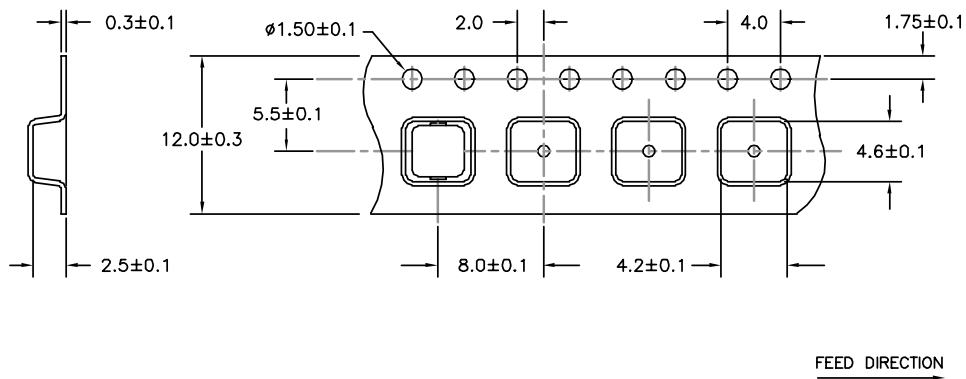
Part Number	L (μH) ²	DCR (mΩ) TYP	DCR (mΩ) MAX	HEAT RATING CURRENT (ADC) ³	SATURATION CURRENT (ADC) ⁴
HPC042N-R22MTR	0.22	7.8	9.3	9	14
HPC042N-R36MTR	0.36	9.5	12	8	11
HPC042N-R47MTR	0.47	10	13	7	10
HPC042N-R56MTR	0.56	11.8	13.5	7	8
HPC042N-R68MTR	0.68	13.5	16	6.3	7
HPC042N-R82MTR	0.82	16	18	5.5	6.5
HPC042N-R88MTR	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

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
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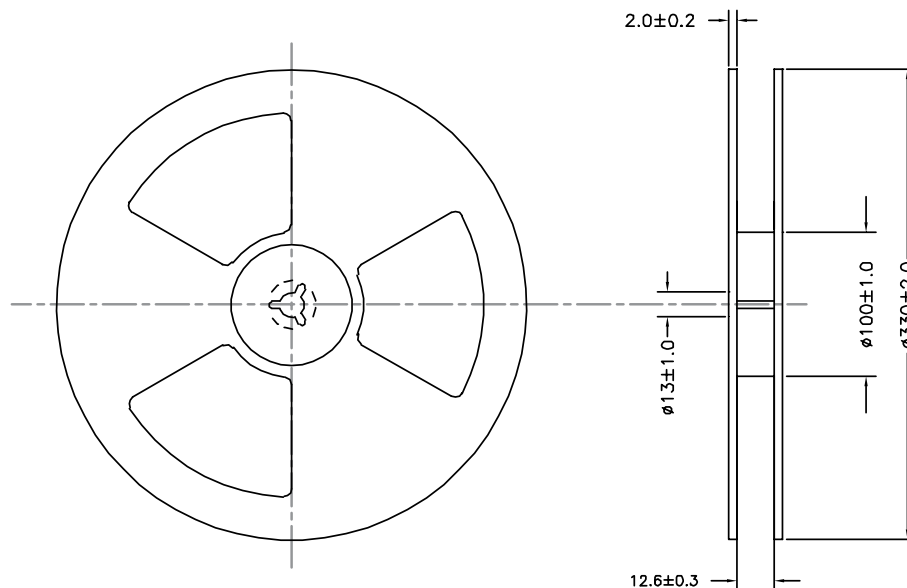
HPC042N-

2000 PARTS PER REEL

CARRIER TAPE DIMENSIONS (mm)



REEL DIMENSIONS (mm)



1000 PARTS PER REEL

[illegible]

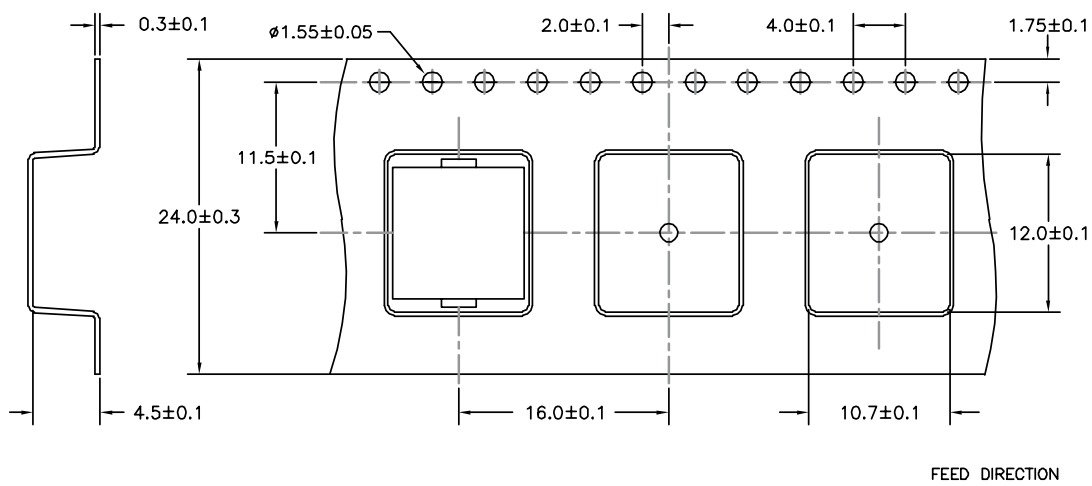
Technical drawing of a circular mechanical part, likely a flywheel or a similar component. The drawing shows a cross-section with a central hole and four radial slots. The dimensions are as follows:

- Outer diameter: 16.6 ± 0.3
- Inner diameter: 13 ± 1.0
- Slot width: 2.0 ± 0.2
- Slot depth: 100 ± 1.0

HPC104N-

700 PARTS PER REEL

CARRIER TAPE DIMENSIONS (mm)



REEL DIMENSIONS (mm)

