

# HIGH-CURRENT SURFACE-MOUNT POWER INDUCTORS

## CEP 104,105,124,125 HT SERIES

### FEATURES:

- High Frequency Design
- Shielded Construction
- Flat wire used
- Excellent Thermal Stability
- Low Profile, Low DCR.
- Super Large Current up to 28A
- Custom Inductors are available

### OPTIONS:

- Tape & Reel is Standard (Qty:600pcs.) Bulk packaging Available for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard, Tighter Tolerances Available

### COMMON APPLICATIONS:

- Notebook, DC/DC Converters
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Network Systems
- Computer Peripheral Equipment
- CPU Power Supply

### ELECTRICAL CHARACTERISTICS:

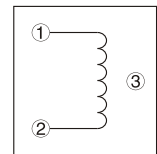
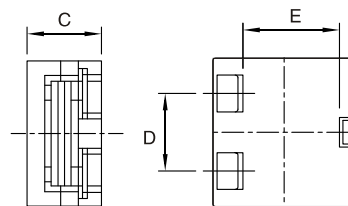
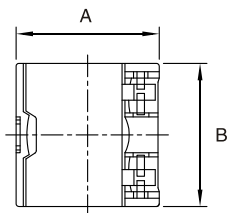
Part Number	Inductance (uH)	DCR (mΩ)Max	Isat (A)	Irms (A)
CEP104HT-0R36N	0.36 ± 30%	1.7	26.0	23.0
CEP104HT-0R80M	0.80 ± 20%	3.9	17.0	15.0
CEP104HT-1R4M	1.40 ± 20%	4.4	14.0	13.0
CEP104HT-2R2M	2.20 ± 20%	8.7	10.0	9.5
CEP104HT-3R2M	3.20 ± 20%	10.4	8.0	8.0
CEP105HT-0R36N	0.36 ± 30%	1.7	26.0	28.0
CEP105HT-0R80M	0.80 ± 20%	2.5	18.0	20.0
CEP105HT-1R4M	1.40 ± 20%	3.2	14.0	16.0
CEP105HT-2R2M	2.20 ± 20%	5.8	10.0	12.0
CEP105HT-3R2M	3.20 ± 20%	7.2	9.0	11.0
CEP105HT-4R3M	4.30 ± 20%	8.5	8.0	10.0
CEP105HT-5R7M	5.70 ± 20%	13.2	7.0	7.6
CEP105HT-7R2M	7.20 ± 20%	15.5	6.2	7.0

Part Number	Inductance (uH)	DCR (mΩ)Max	Isat (A)	Irms (A)
CEP105HT-8R8M	8.80 ± 20%	17.2	5.6	6.0
CEP124HT-0R75M	0.75 ± 20%	3.0	14.0	13.0
CEP124HT-1R3M	1.30 ± 20%	4.5	13.0	12.0
CEP124HT-2R0M	2.00 ± 20%	6.0	11.0	10.0
CEP125HT-0R90N	0.90 ± 30%	2.5	20.0	18.0
CEP125HT-1R4N	1.40 ± 30%	3.4	16.0	15.0
CEP125HT-2R0N	2.00 ± 30%	4.6	13.0	12.0
CEP125HT-3R2N	3.50 ± 30%	9.0	9.0	8.6
CEP125HT-4R6N	4.80 ± 30%	10.5	7.2	8.2
CEP125HT-6R4N	6.80 ± 30%	11.0	6.0	7.8
CEP125HT-8R2N	8.60 ± 30%	12.0	5.4	7.2
CEP125HT-10R0N	10.5 ± 30%	13.5	4.7	6.5

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

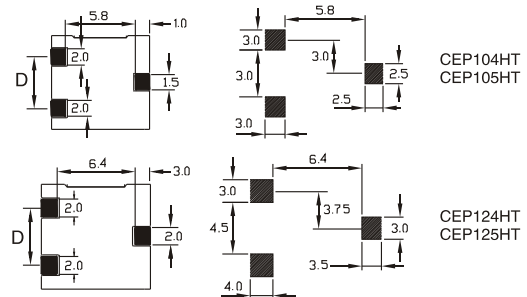
### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Inductance Testing: HP4284A, 100kHz/1V or equivalent
- RDC:QuadTech 1880 Milliohm meter
- Isat Current L value drop 65% typ.at I<sub>bc</sub> against its initial value
- Irms Temperature rise 40°CMax Reference Ambient temperature
- Solderability: 75% of the lead wire Shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-40°C to +105°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength:24.5N Min
- Moisture resistance: ΔL/L ≤ ± 10% ΔQ/Q ≤ ± 25%



Dimensions(mm)

Part Number	A	B	C	D	E
CEP104HT	11.0 ± 0.30	9.35 ± 0.30	4.50 ± 0.30	6.00 ref.	5.80 ref.
CEP105HT	11.0 ± 0.30	9.35 ± 0.30	5.50 ± 0.30	6.00 ref.	5.80 ref.
CEP124HT	12.5 ± 0.30	12.5 ± 0.30	4.0 ± 0.30	7.50 ref.	6.40 ref.
CEP125HT	12.5 ± 0.30	12.5 ± 0.30	5.0 ± 0.30	7.50 ref.	6.40 ref.

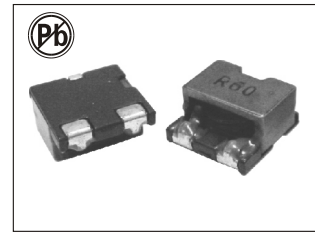


LAND PATTERN

Note:All specifications subject to change without notice.

# HIGH-CURRENT SURFACE-MOUNT POWER INDUCTORS

## CEP 126,135,159 HT SERIES



### FEATURES:

- High Frequency Design
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- Flat wire used
- Excellent Thermal Stability
- Low Profile, Low DCR.
- Super Large Current up to 28A
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### OPTIONS:

- Tape & Reel is Standard (Qty:600pcs.)
- Bulk packaging Available for Smaller Quantities
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### COMMON APPLICATIONS:

- Notebook, DC/DC Converters
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Network Systems
- Computer Peripheral Equipment
- CPU Power Supply

## ELECTRICAL CHARACTERISTICS:

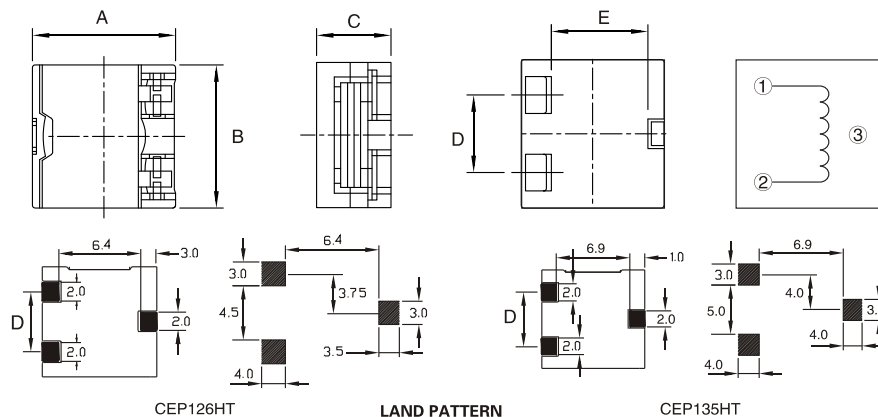
Part Number	Inductance (uH)	DCR (mΩ)Max	Isat (A)	Irms (A)
CEP126HT-0R7N	0.7 ± 30%	2.3	30.0	30.0
CEP126HT-0R9N	0.9 ± 30%	2.3	26.0	28.0
CEP126HT-1R1N	1.1 ± 30%	3.2	25.0	26.0
CEP126HT-1R5N	1.5 ± 30%	3.6	19.0	22.0
CEP126HT-2R2N	2.2 ± 30%	6.0	15.0	17.0
CEP126HT-2R7N	2.7 ± 30%	6.0	12.0	13.0
CEP126HT-3R0N	3.0 ± 30%	6.0	13.0	15.0
CEP126HT-3R6N	3.6 ± 30%	7.0	8.50	10.0
CEP126HT-4R8N	4.8 ± 30%	7.0	7.50	9.00
CEP135HT-0R56N	0.56 ± 30%	1.26	38.0	35.0
CEP135HT-0R68N	0.68 ± 30%	1.80	29.0	30.0
CEP135HT-1R2N	1.20 ± 30%	2.65	22.0	25.0
CEP135HT-1R8M	1.80 ± 30%	3.45	18.0	20.0

Part Number	Inductance (uH)	DCR (mΩ)Max	Isat (A)	Irms (A)
CEP135HT-2R8M	2.80 ± 30%	7.95	15.0	13.0
CEP159HT-1R2M	1.20 ± 20%	2.0	19.0	16.0
CEP159HT-1R4M	1.40 ± 20%	2.0	18.0	15.0
CEP159HT-1R8M	1.80 ± 20%	3.0	18.0	14.0
CEP159HT-2R0M	2.00 ± 20%	3.0	16.0	13.0
CEP159HT-2R5M	2.50 ± 20%	3.4	14.5	12.0
CEP159HT-2R8M	2.80 ± 20%	3.4	14.0	12.0
CEP159HT-3R0M	3.00 ± 20%	4.3	13.0	10.0
CEP159HT-3R6M	3.60 ± 20%	4.3	12.0	10.0
CEP159HT-3R9M	3.90 ± 20%	6.5	11.5	9.0
CEP159HT-4R5M	4.50 ± 20%	6.5	10.5	8.0
CEP159HT-4R8M	4.80 ± 20%	7.2	10.0	7.0
CEP159HT-5R6M	5.60 ± 20%	7.2	9.0	6.0

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

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- Solderability: 75% of the lead wire Shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-40°C to +105°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength:24.5N Min
- Moisture resistance:  
 $\Delta L/L \leq \pm 10\%$   $\Delta Q/Q \leq \pm 25\%$



**Dimensions(mm)**

Part Number	A	B	C	D	E
CEP126HT	12.5 ± 0.30	12.5 ± 0.30	5.7 ± 0.30	7.50 ref.	6.40 ref.
CEP135HT	13.3 ± 0.30	13.1 ± 0.30	5.0 max	8.00 ref.	6.90 ref.
CEP159HT	15.0 ± 0.40	15.0 ± 0.40	9.5 ± 0.50	10.0 ref.	5.0 ref.

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