

HIGH CURRENT POWER INDUCTORS

CEP 148 SERIES

FEATURES:

- Compact size using flat wire, and SMD type
- Low radiation noise by magnetically shielded construction
- High current
- Low resistance

COMMON APPLICATIONS:

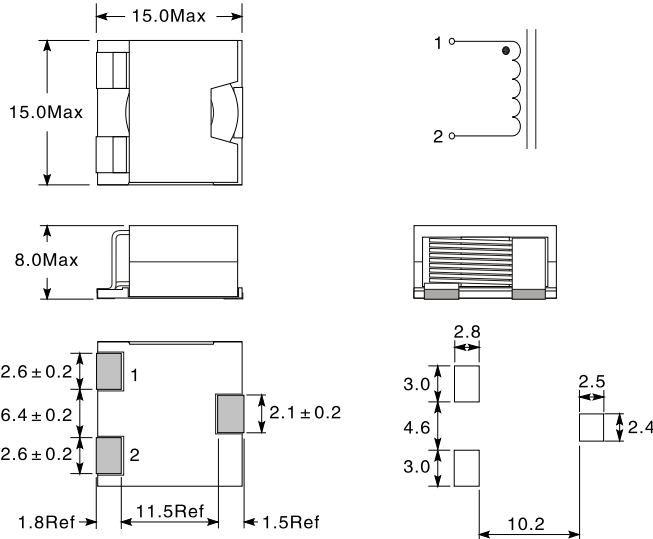
- High efficiency DC/DC converters
- Single and polyphase buck converters
- Filter for audio applications
- Optimized for high current boost applications

ELECTRICAL CHARACTERISTICS:

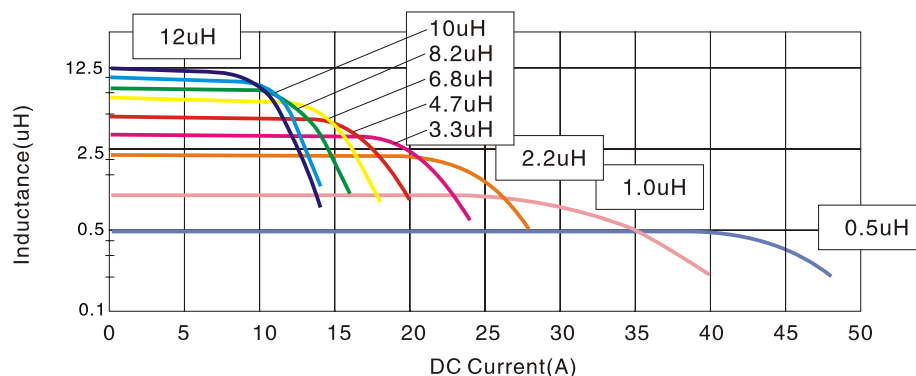
Part No.	Inductance @100KHz (uH) $\pm 20\%$	DCR (m Ω)	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
CEP148-0R5	0.5	1.2	39.0	42.0	43.0	23
CEP148-1R0	1.0	1.2	25.4	28.0	29.2	23
CEP148-2R2	2.2	2.0	19.0	21.0	21.8	20
CEP148-3R3	3.3	3.3	15.0	17.0	18.0	17.5
CEP148-4R7	4.7	5.0	12.0	14.0	15.0	16
CEP148-6R8	6.8	6.0	10.2	12.0	12.8	12.5
CEP148-8R2	8.2	7.8	9.0	10.0	10.7	11
CEP148-100	10.0	9.8	8.5	9.5	10.2	10
CEP148-120	12.0	13.0	7.5	8.5	9.2	8.5

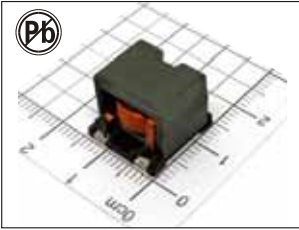
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



- Test Frequency : 100KHz / 0.25V
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40°C ~ +105°C.
- All specifications subject to change without notice.





HIGH CURRENT POWER INDUCTORS

CEP 1412 SERIES

FEATURES:

- Compact size using flat wire, and SMD type
- Low radiation noise by magnetically shielded construction
- High current
- Low resistance

COMMON APPLICATIONS:

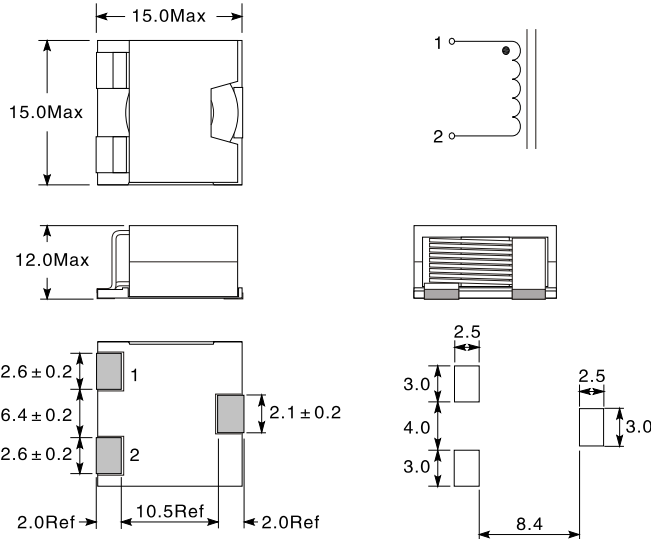
- High efficiency DC/DC converters
- Single and polyphase buck converters
- Filter for audio applications
- Optimized for high current boost applications

ELECTRICAL CHARACTERISTICS:

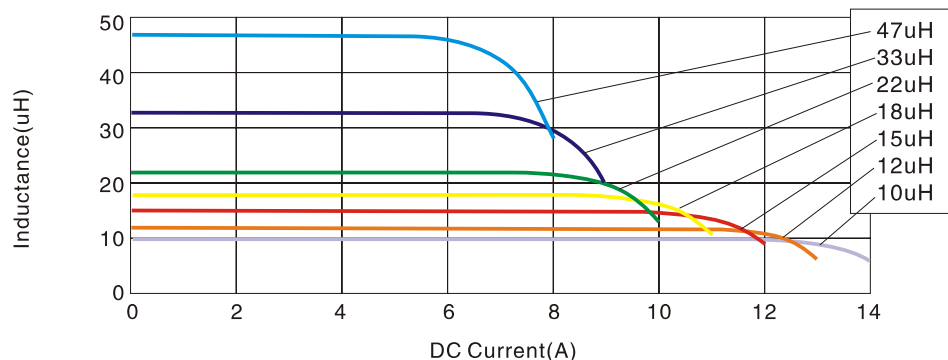
Part No.	Inductance @100KHz (uH) $\pm 20\%$	DCR (m Ω)	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
CEP1412-100	10	7.98	11.9	13.1	13.5	10.1
CEP1412-120	12	9.42	10.7	11.8	12.5	9.7
CEP1412-150	15	10.8	9.8	10.9	11.6	9.1
CEP1412-180	18	12.6	9.1	10.0	10.5	8.4
CEP1412-220	22	15.2	7.9	8.8	9.4	7.8
CEP1412-330	33	17.9	7.0	7.9	8.6	7.1
CEP1412-470	47	17.9	6.0	6.9	7.4	6.5

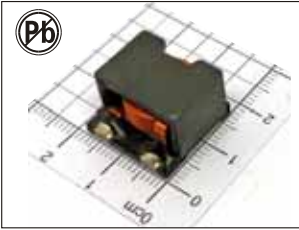
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HIGH CURRENT POWER INDUCTORS

CEP 1812 SERIES

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- High current
- Low resistance

COMMON APPLICATIONS:

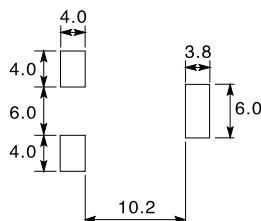
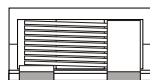
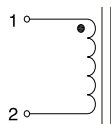
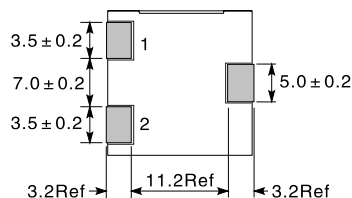
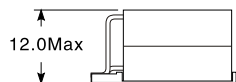
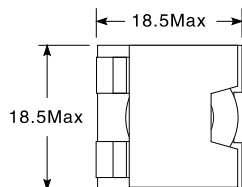
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- Filter for audio applications
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ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @ 100KHz (uH) $\pm 20\%$	DCR (m Ω)Max	DC saturation current L0 Drop 25% Max	Temperature rise 40°C current (A)Max
CEP1812-5R6	5.6	2.00	12.0	22.5
CEP1812-8R2	8.2	2.42	10.8	19.5
CEP1812-120	12	3.29	9.0	18.0
CEP1812-150	15	4.33	8.0	16.5
CEP1812-220	22	5.60	6.8	16.0
CEP1812-270	27	7.92	6.7	12.5
CEP1812-330	33	8.94	5.5	12.0

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Dimensions(mm)



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