

HIGH CURRENT POWER INDUCTOR

HCEP 104 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	DCR (mΩ)Max	DC saturation current			Temperature rise 40°C current°C (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP104-0R8	0.8	4.0	24.9	25.2	25.6	16.3
HCEP104-1R0	1.0	4.0	16.5	17.0	17.5	16.3
HCEP104-1R2	1.2	6.0	20.5	21.0	21.3	15.0
HCEP104-1R3	1.3	4.0	12.9	16.8	17.2	16.3
HCEP104-1R5	1.5	4.0	13.5	14.0	14.5	16.3
HCEP104-1R8	1.8	6.0	13.3	13.8	14.3	15.0
HCEP104-2R0	2.0	9.0	15.3	15.8	16.2	11.5
HCEP104-2R2	2.2	4.0	8.9	9.6	10.0	16.3
HCEP104-2R5	2.5	7.5	11.4	11.8	12.1	12.0
HCEP104-3R2	3.2	6.0	7.3	8.0	8.5	15.0
HCEP104-4R0	4.0	9.0	8.3	8.5	8.8	11.5
HCEP104-4R3	4.3	7.5	6.4	6.8	7.0	12.0
HCEP104-5R7	5.7	9.0	5.4	5.8	6.0	11.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz/0.25V

Testing Instrument: L:HP4284A, CH11025, CH3302, CH1320, CH1320S

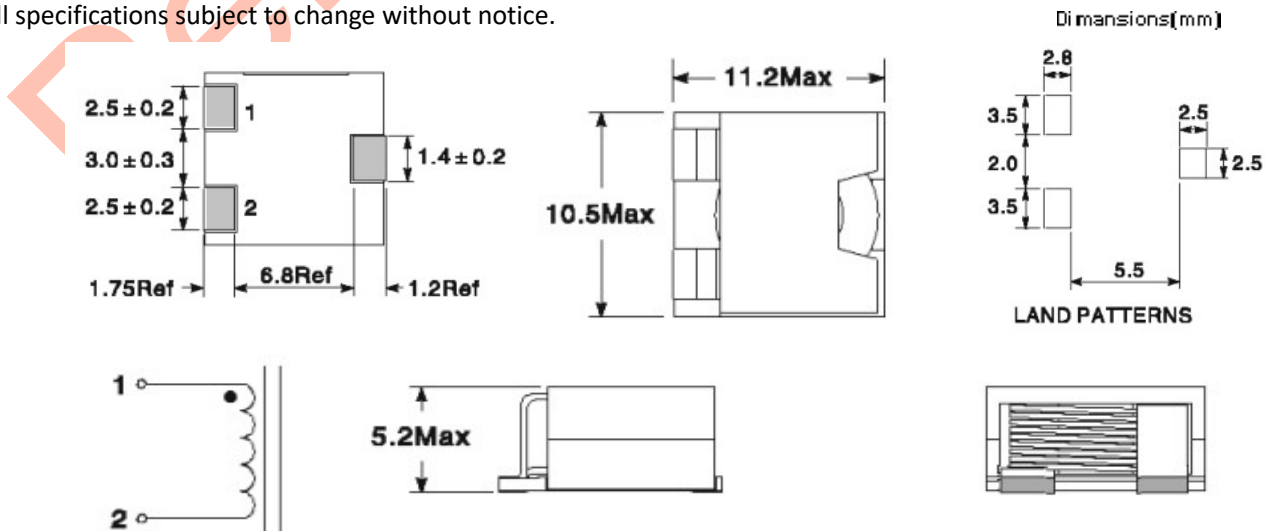
LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.

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 Temperatures & Storage Temperature: -40°C - +105°C.

All specifications subject to change without notice.



HIGH CURRENT POWER INDUCTOR

HCEP 105 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	OCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP105-5R6	5.6	10.5	4.0	7.8	10.5	8.5
HCEP105-6R8	6.8	12.0	3.5	6.8	9.8	7.8
HCEP105-9R0	9.0	16.0	3.2	5.7	9.1	6.6
HCEP105-100	10.0	18.8	3.0	5.5	9.0	6.0
HCEP105-120	12.0	21.0	2.4	5.0	7.2	5.2
HCEP105-150	15.0	26.5	2.0	4.2	6.5	4.6
HCEP105-220	22.0	40.0	2.0	3.0	5.2	4.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz/0.25V

Testing Instrument: L:HP4284A, CH11025, CH3302, CH1320, CH1320S

LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.

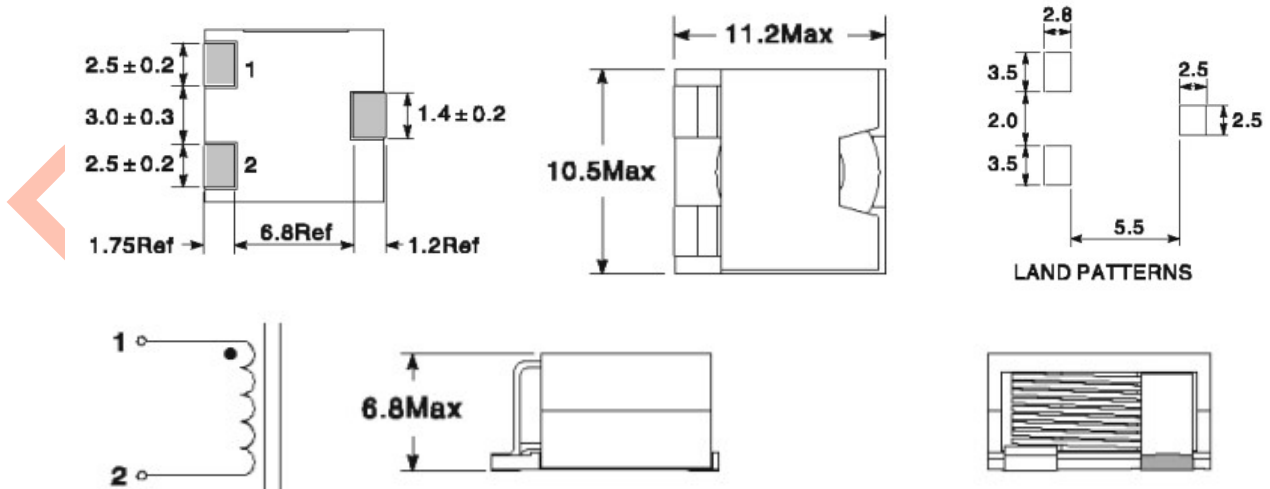
The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Operating Temperatures & Storage Temperature: -40°C - +105°C.

All specifications subject to change without notice.

Dimensions(mm)



HIGH CURRENT POWER INDUCTOR

HCEP 136 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	OCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP136-1R0	1.0	2.6	32	33	33.5	13
HCEP136-2R2	2.2	2.6	15	17	18	13
HCEP136-2R7	2.7	2.6	12	13	14	13
HCEP136-3R3	3.3	6.0	11.5	12.5	13.5	9.4
HCEP136-4R7	4.7	6.0	9.5	11	12	9.4
HCEP136-6R8	6.8	6.0	8.0	9	9.5	9.4
HCEP136-8R2	8.2	10.8	7.5	8.5	9	7.6
HCEP136-100	10	10.8	6.2	7	7.5	7.6

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz/0.25V

Testing Instrument: L:HP4284A, CH11025, CH3302, CH1320, CH1320S

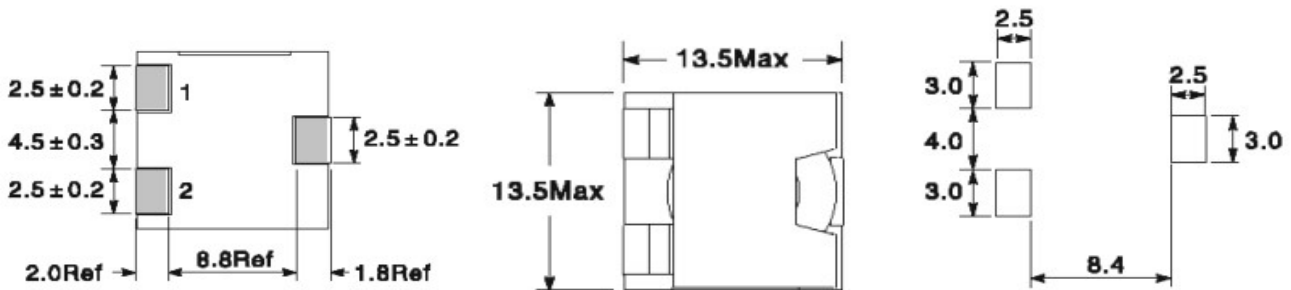
LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.

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.

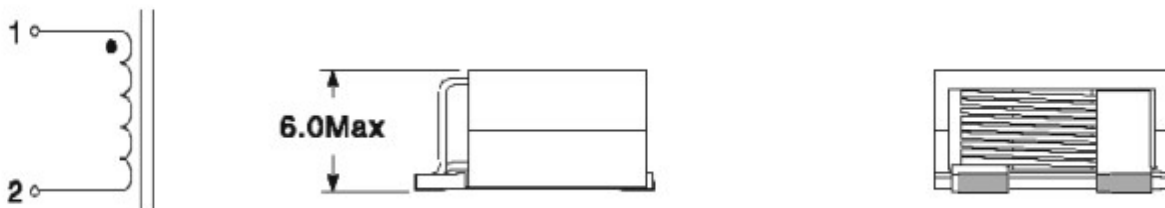
Operating Temperatures & Storage Temperature: -40°C - +105°C.

All specifications subject to change without notice.

Dimensions(mm)



LAND PATTERNS



HIGH CURRENT POWER INDUCTOR

HCEP 139 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	OCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP139-100	10	15	11.4	12.6	13.2	9.2
HCEP139-150	15	15	7.2	8.1	8.7	9.2
HCEP139-220	22	23	8.1	6.8	7.4	7.7
HCEP139-330	33	23	3.8	4.4	4.8	7.7
HCEP139-470	47	23	2.6	3.0	3.2	7.7

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz/0.25V

Testing Instrument: L:HP4284A, CH11025, CH3302, CH1320, CH1320S

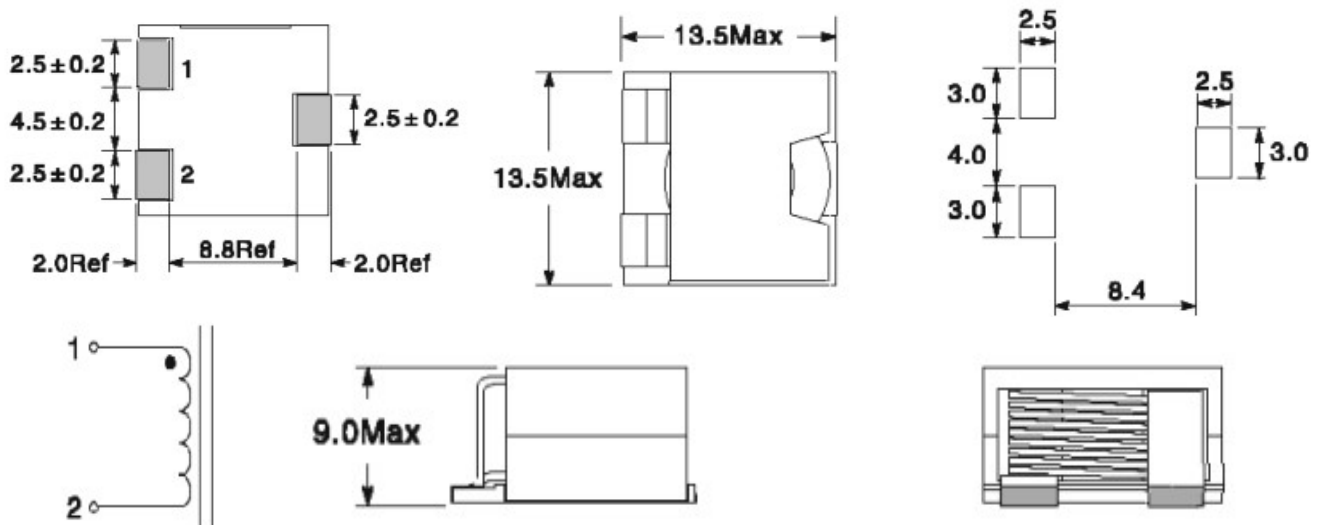
LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.

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 Temperatures & Storage Temperature: -40°C - +105°C.

All specifications subject to change without notice.

Dimensions(mm)



HIGH CURRENT POWER INDUCTOR

HCEP 1412 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	OCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP1412-100	10	7.98	11.9	13.1	13.5	10.1
HCEP1412-120	12	9.42	10.7	11.8	12.5	9.7
HCEP1412-150	15	10.8	9.8	10.9	11.6	9.1
HCEP1412-180	18	12.6	9.1	10.0	10.5	8.4
HCEP1412-220	22	15.2	7.9	8.8	9.4	7.8
HCEP1412-330	33	17.9	7.0	7.9	8.6	7.1
HCEP1412-470	47	17.0	6.0	6.9	7.4	6.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz/0.25V

Testing Instrument: L:HP4284A, CH11025, CH3302, CH1320, CH1320S

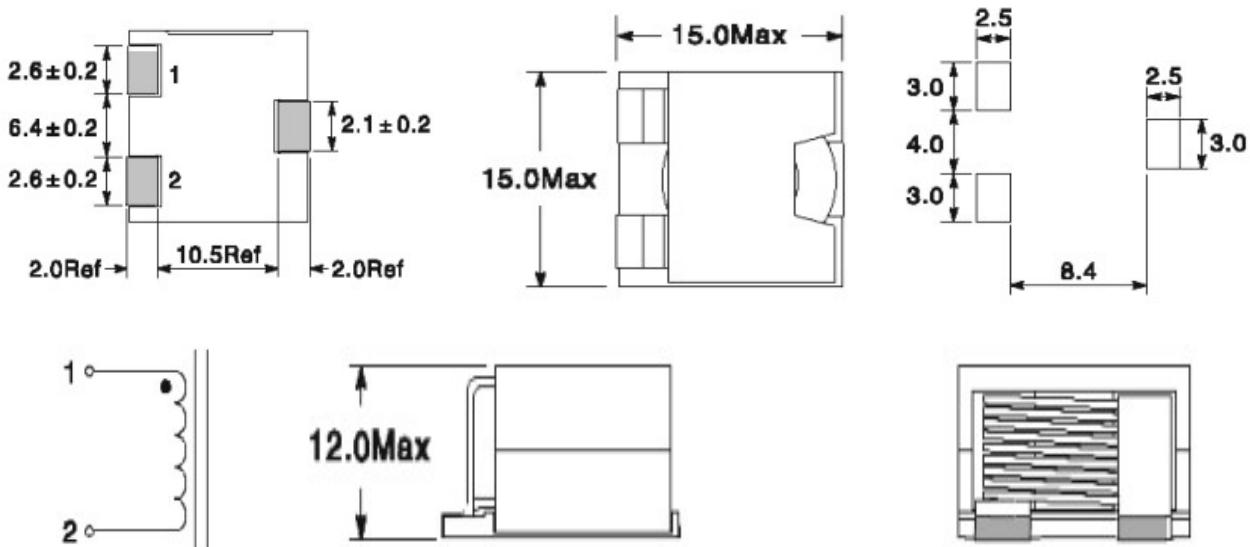
LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.

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 Temperatures & Storage Temperature: -40°C - +105°C.

All specifications subject to change without notice.

Dimensions(mm)



HIGH CURRENT POWER INDUCTOR

HCEP 148 SERIES Series



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH)±20%	OCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
HCEP148-0R5	0.5	1.2	39.0	42.0	43.0	23
HCEP148-1R0	1.0	1.2	25.4	28.0	29.2	23
HCEP148-2R2	2.2	2.0	19.0	21.0	21.8	20
HCEP148-3R3	3.3	3.3	15.0	17.0	18.0	17.5
HCEP148-4R7	4.7	5.0	12.0	14.0	15.0	16
HCEP148-6R8	6.8	6.0	10.2	12.0	12.8	12.5
HCEP148-8R2	8.2	7.8	9.0	10.0	10.7	11
HCEP148-100	10.0	9.8	8.5	9.5	10.2	10
HCEP148-120	12.0	13.0	7.5	8.5	9.2	8.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

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 Temperatures & Storage Temperature: -40°C - +105°C.

Dimensions(mm)

