

HIGH CURRENT POWER INDUCTORS

LPQ2716 SERIES

FEATURES:

- Using flat wire
- Low radiation noise by magnetically shielded construction
- High current
- Low resistance

COMMON APPLICATIONS:

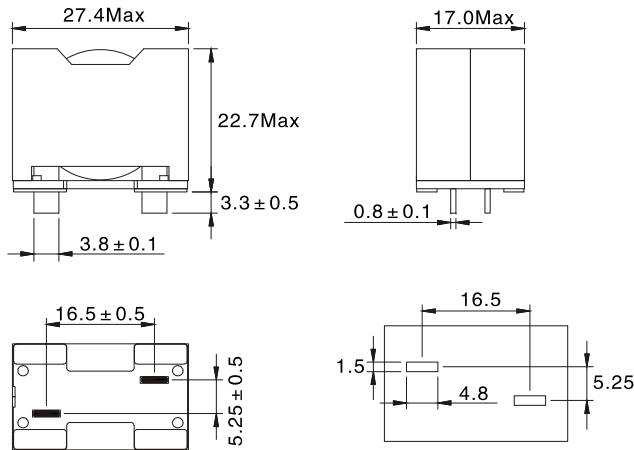
- High efficiency DC/DC converters
- Single and polyphase buck converters
- Filter for audio applications
- Optimized for high current boost applications

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @ 100KHz (uH) ± 20%	DCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
			L0 Drop 10% Max	L0 Drop 20% Max	L0 Drop 30% Max	
LPQ2716-3R3M	3.3	2.86	91	92.5	93.6	28
LPQ2716-4R7M	4.7	2.86	59	61.2	62.4	28
LPQ2716-6R8M	6.8	2.86	42	45	45.9	28
LPQ2716-100M	10	2.86	28	31.2	32.1	28
LPQ2716-150M	15	2.86	18	21.2	21.9	28
LPQ2716-220M	22	2.86	12	14.0	15.0	28
LPQ2716-330M	33	2.86	7	8.7	9.6	28

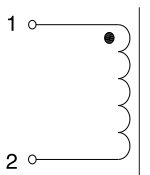
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

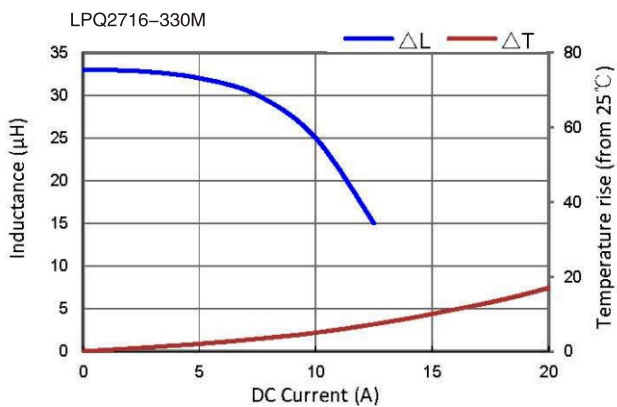
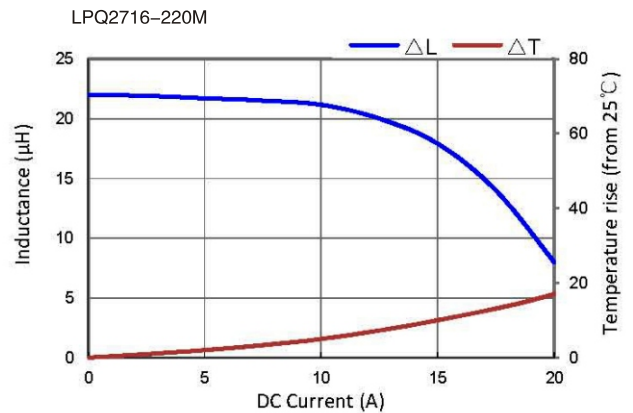
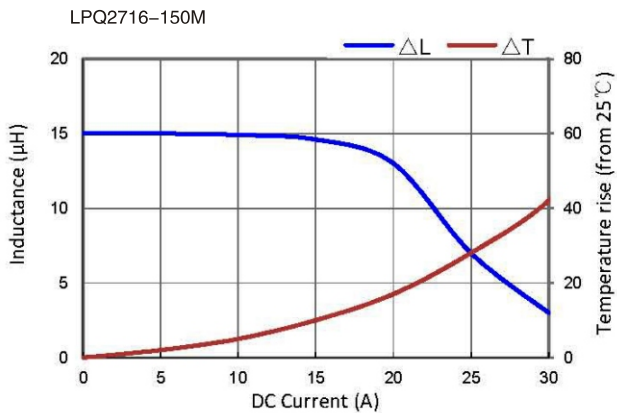
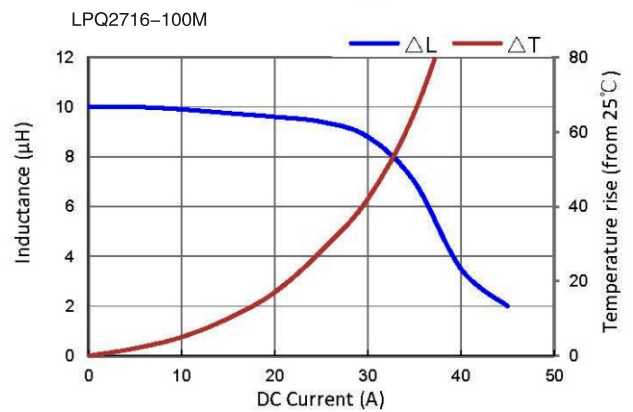
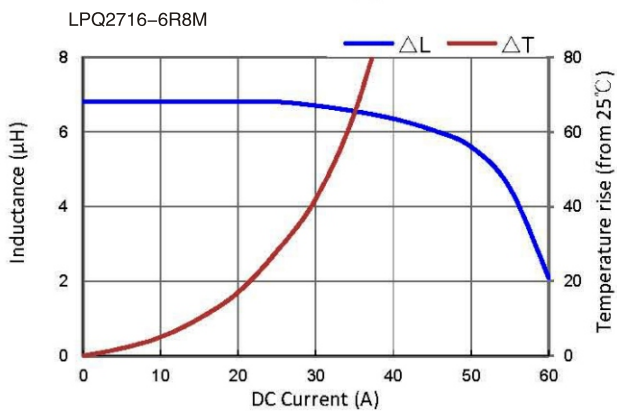
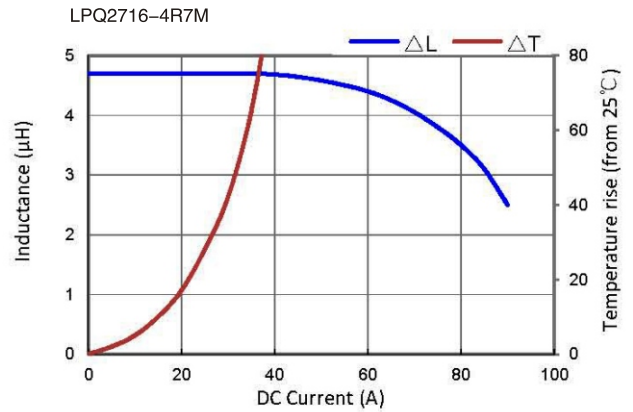
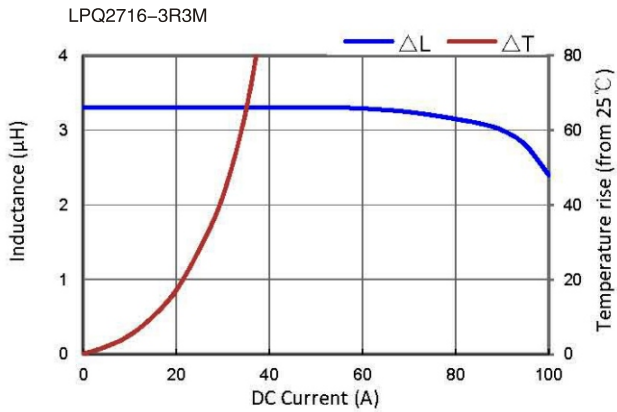


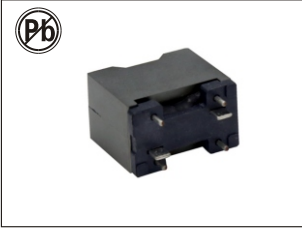
- Test Frequency : 100KHz / 0.25V
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size 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 - +125°C.
- All specifications subject to change without notice.

Winding



ELECTRICAL CHARACTERISTIC CURVE:





HIGH CURRENT POWER INDUCTORS

LPQ2716B SERIES

FEATURES:

- Using flat wire
- Low radiation noise by magnetically shielded construction
- High current
- Low resistance

COMMON APPLICATIONS:

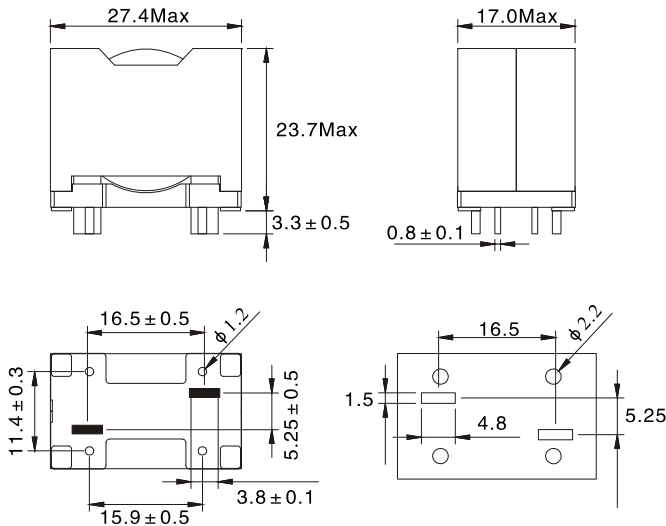
- High efficiency DC/DC converters
- Single and polyphase buck converters
- Filter for audio applications
- Optimized for high current boost applications

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @ 100KHz (uH) ± 20%	DCR (mΩ)Max	DC saturation current			Temperature rise 40°C current (A)Max
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LPQ2716B-3R3M	3.3	2.86	91	92.5	93.6	28
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LPQ2716B-220M	22	2.86	12	14.0	15.0	28
LPQ2716B-330M	33	2.86	7	8.7	9.6	28

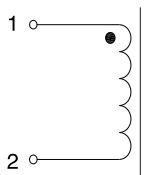
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

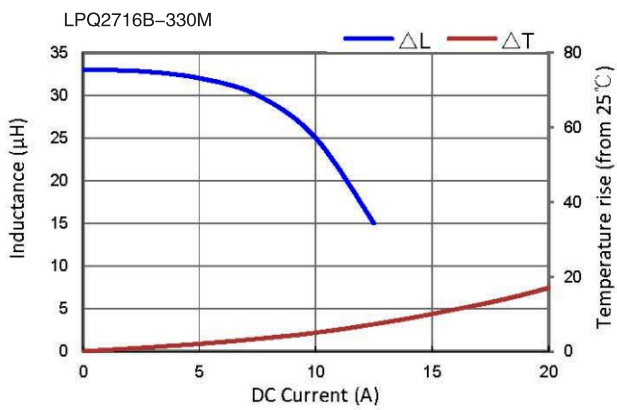
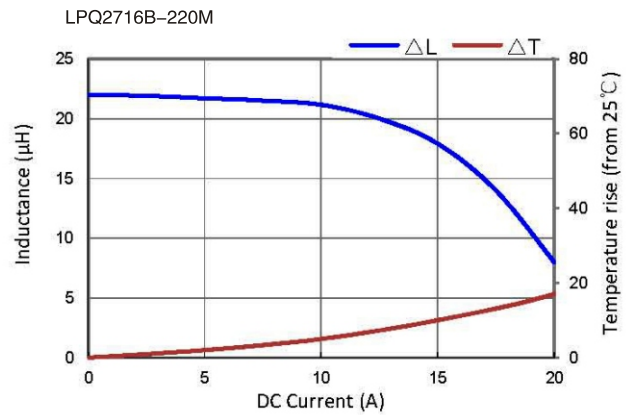
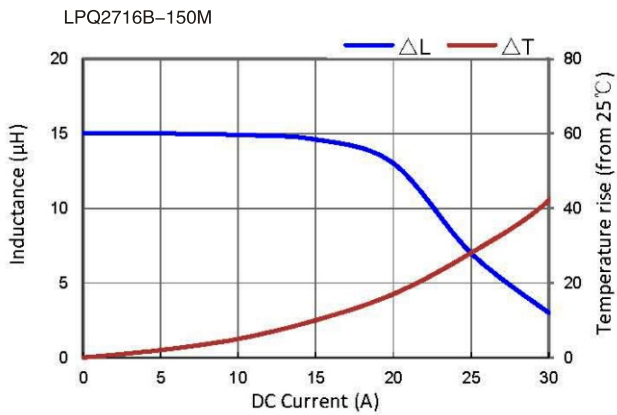
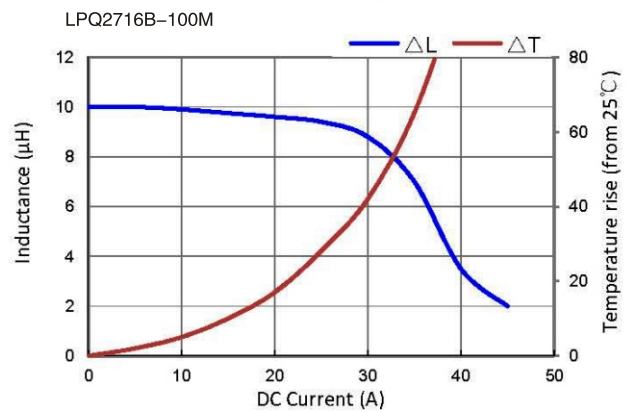
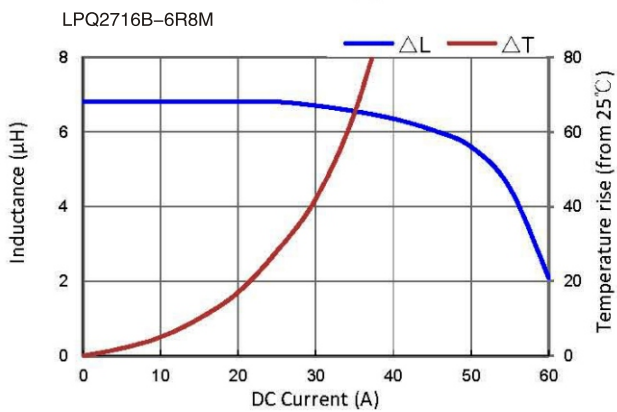
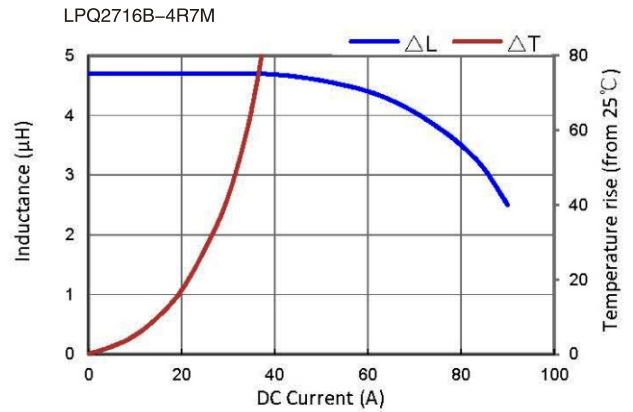
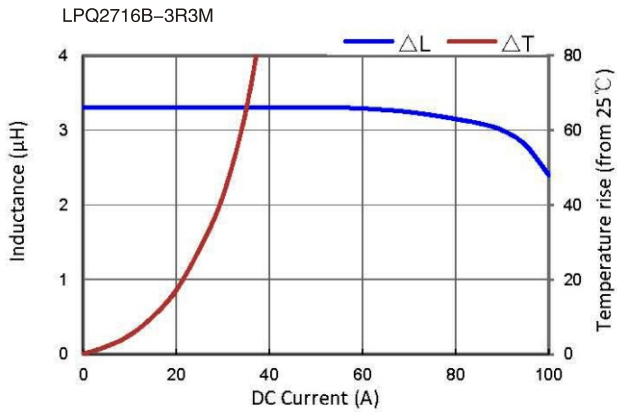


- Test Frequency : 100KHz / 0.25V
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size 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 - +125°C.
- All specifications subject to change without notice.

Winding



ELECTRICAL CHARACTERISTIC CURVE:



HIGH CURRENT POWER INDUCTORS

LPQ3218 SERIES



FEATURES:

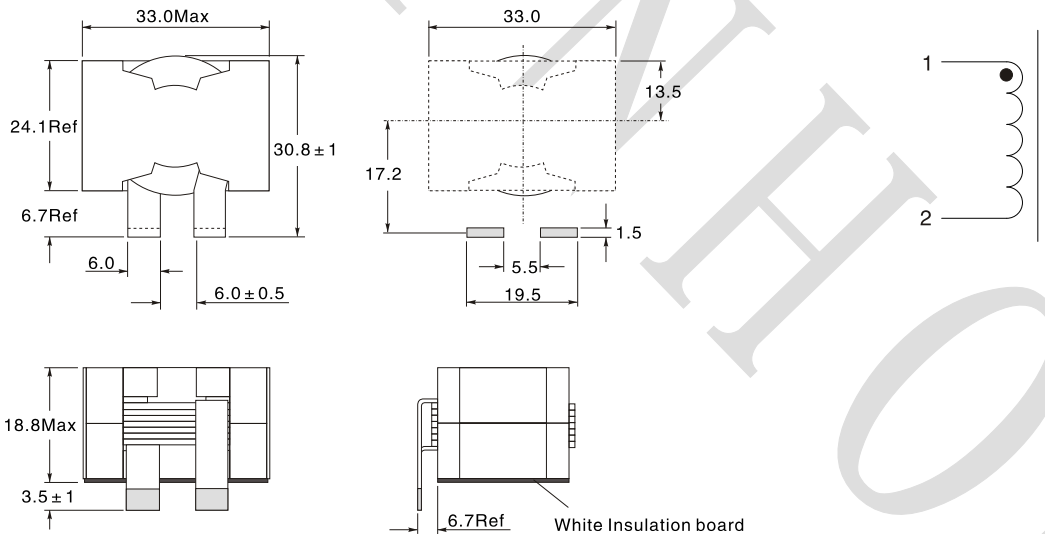
- Assemblage design, sturdy structure
- High inductance, high current, low magnetic loss, low ERS, small parasitic capacitance
- Flat wire winding, achieve a low DCR
- Temperature rise current and saturation current is less influenced by environment

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance 100KHz,0.1V (uH) ± 10%	DCR (mΩ)Max	Isat (A)typ.	Irms (A)typ.
LPQ3218-3R3M	3.3	1.45	80	45
LPQ3218-4R7M	4.7	1.45	75	45
LPQ3218-5R0M	5.0	1.45	70	45
LPQ3218-6R0M	6.0	1.45	55	45
LPQ3218-6R8M	6.8	1.45	50	45

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS & WINDING



- All test data is referenced to 25°C ambient.
- Test condition: 100KHz,0.1V
- Irms:DC current(A) that will cause an approximate ΔT of 40°C.
- Isat:DC current(A) that will cause L_o to drop approximate 30%.
- Operating temperature range is -25°C to 125°C.
- The part temperature(ambient and temp rise)should not exceed 125°C under worse case operating conditions. Circuit design,component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the endapplication.