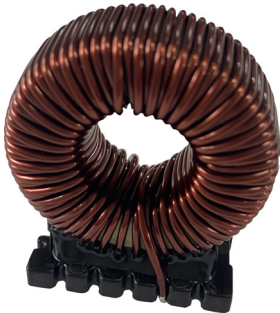


Power Factor Correction Choke **multicomp**PRO

RoHS
Compliant



Features

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- High current output chokes, up to 29.5 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.

Specification

Inductance Range	: 100uH to 1000uH.
Foot Print	: 42.5mm × 20mm max., 49 max. Height.
Surge Voltage	: 400V DC.
Operating Temperature Range	: -55°C to + 130°C.

Electrical Characteristics

Part Number	OCL ¹ (uH) ±10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	I _{rms} ³ (A) @25°C
MPFC434920B-101K	100	20.5	15.4	76.2	20.2	65.3	29.5	45.2	15.3
MPFC434920B-201K	200	38	11	148.3	14.5	127.2	21.2	88.1	11.1
MPFC434920B-251K	250	47.5	9.9	185	13	158.6	18.9	109.8	9.8
MPFC434920B-351K	350	64.5	8.4	257.2	11	220.5	16.1	152.7	8.4
MPFC434920B-471K	470	85	7.2	348.8	9.4	299.1	13.8	207.1	7.1
MPFC434920B-561K	560	111	6.6	412.1	8.7	353.4	12.7	244.7	6.1
MPFC434920B-691K	690	128	5.9	507.8	7.8	435.4	11.4	301.5	5.7
MPFC434920B-821K	820	170	5.4	603.4	7.2	517.4	10.5	358.2	4.9
MPFC434920B-102K	1000	228.5	4.9	740	6.5	634.6	9.4	439.4	4.2

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL (Ta=25°C).
3. I_{rms}: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25°C).

Power Factor Correction Choke **multicomp** PRO

Mechanical Dimension

Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ± 0.5	Dim. E (mm) ± 0.5	Dim. E1 (mm) ± 0.5	Dim. E2 (mm) ± 0.5	Dim. F (mm) ± 0.1	Dim. H (mm) Ref.	Fig.
MPFC434920B-101K	42.5	18	46	5	12.5	/	/	$\Phi 1.6$	$\Phi 2.1$	1
$\Phi 1.4$								$\Phi 1.9$		
$\Phi 1.3$								$\Phi 1.8$		
MPFC434920B-251K	42	20	49	5	/	15	15	$\Phi 1$	$\Phi 1.5$	2
MPFC434920B-351K										
MPFC434920B-471K	41.5	19.5	48.5	5	/	15	15	$\Phi 1$	$\Phi 1.5$	2
MPFC434920B-561K										
MPFC434920B-691K										
MPFC434920B-821K										
MPFC434920B-102K										

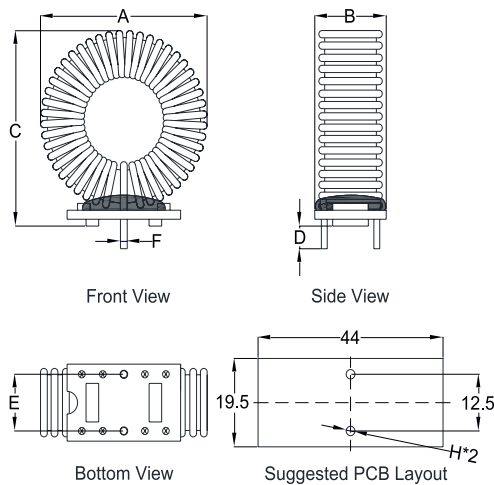


Fig. 1

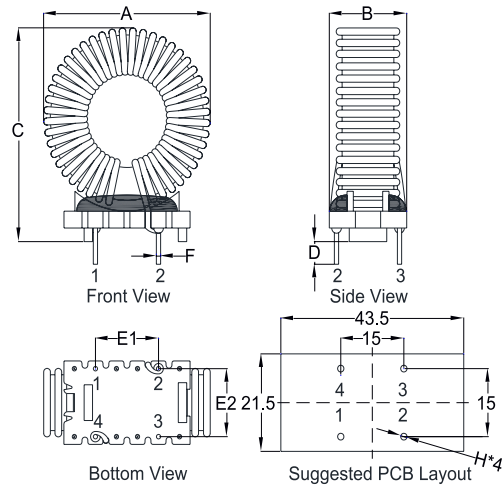
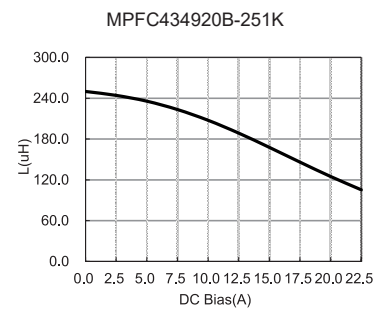
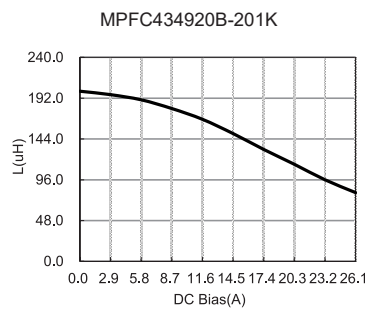
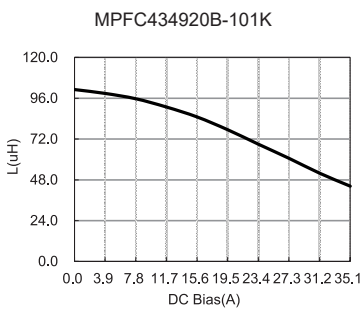


Fig. 2

Dimensions : Millimetres

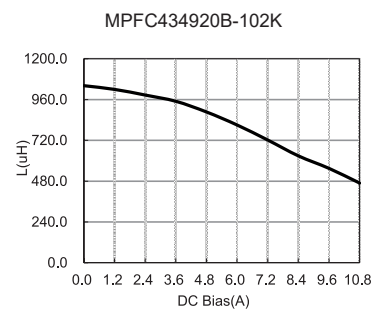
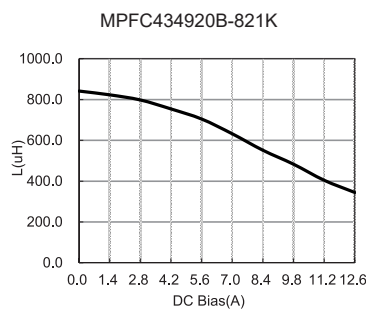
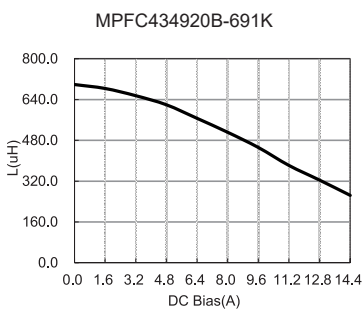
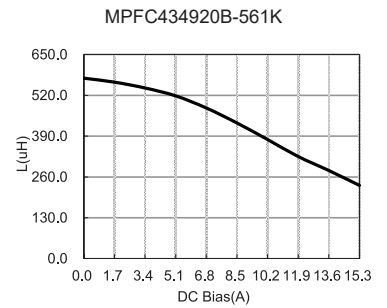
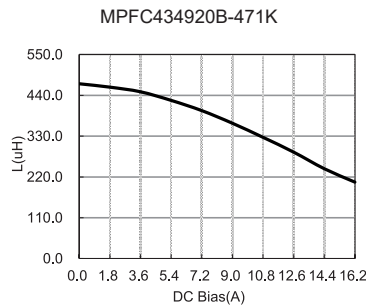
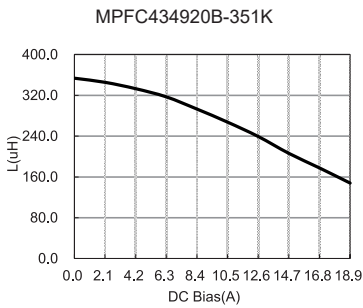
Note: PIN1 & PIN3 provided for mounting stability only.

Inductance vs. Current Characteristics



Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 sg.element14.com/b/multicomp-pro

multicomp PRO



Part Number Table

Description	Part Number
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 100uH	MPFC434920B-101K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 200uH	MPFC434920B-201K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 250uH	MPFC434920B-251K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 350uH	MPFC434920B-351K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 470uH	MPFC434920B-471K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 560uH	MPFC434920B-561K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 690uH	MPFC434920B-691K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 821uH	MPFC434920B-821K
Power Factor Correction Choke, Foot height 42.5mm × 20mm, 1000uH	MPFC434920B-102K

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.