

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 39.8 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.

Specification

Inductance Range	: 100uH to 1000uH.
Foot Print	: 46.5mm × 27mm max., 53 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
MPFC475327B-101K	100	17	20.8	73	27.3	62.6	39.8	43.3	19.4
MPFC475327B-201K	200	29.5	14.5	149	19.1	127.8	27.9	88.4	14.5
MPFC475327B-251K	250	33	13	186.9	17	160.3	24.9	111	13.7
MPFC475327B-351K	350	49	11	259.6	14.4	222.6	21.1	154.1	11.1
MPFC475327B-471K	470	68	9.5	344.3	12.5	295.2	18.3	204.4	9.4
MPFC475327B-561K	560	78.5	8.7	410.6	11.5	352.1	16.8	243.8	8.5
MPFC475327B-691K	690	104.5	7.9	504.5	10.3	432.6	15.1	299.6	7.3
MPFC475327B-821K	820	137.5	7.2	608.1	9.4	521.4	13.8	361	6.3
MPFC475327B-102K	1000	183	6.5	734.5	8.6	629.8	12.5	436.1	5.4

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).

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Mechanical Dimension

Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ± 0.5	Dim. E1 (mm) ± 0.5	Dim. E2 (mm) ± 0.5	Dim. E3 (mm) ± 0.5	Dim. E4 (mm) ± 0.5	Dim. F1 (mm) ± 0.1	Dim. F2 (mm) ± 0.1	Dim. H (mm) Ref.	Fig.
MPFC475327B-101K	46.5	27	53	5	15	15	/	/	$\Phi 1.2$	$\Phi 1.8$	$\Phi 2.3$	1
$\Phi 1.6$										$\Phi 2.1$		
$\Phi 1.6$										$\Phi 2.1$		
MPFC475327B-201K	46.0	27	52.5	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.4$	$\Phi 1.9$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-251K	46.0	27	52.5	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-351K	46.0	27	52.5	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-471K	46.0	27	52.5	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-561K	46.0	27	52.5	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-691K	45.5	27	52	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-821K	45.5	27	52	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		
MPFC475327B-102K	45.5	27	52	5	/	/	/	/	$\Phi 1.2$	$\Phi 1.3$	$\Phi 1.8$	1
$\Phi 1.3$										$\Phi 1.8$		
$\Phi 1.3$										$\Phi 1.8$		

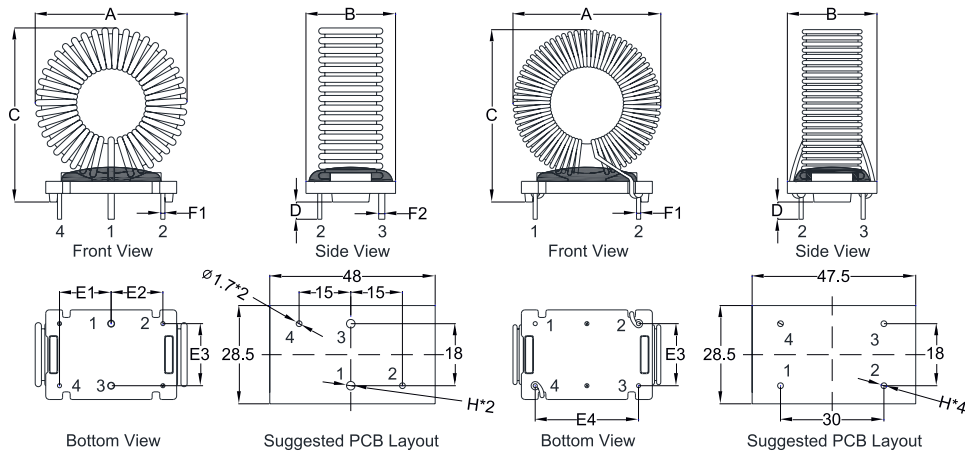


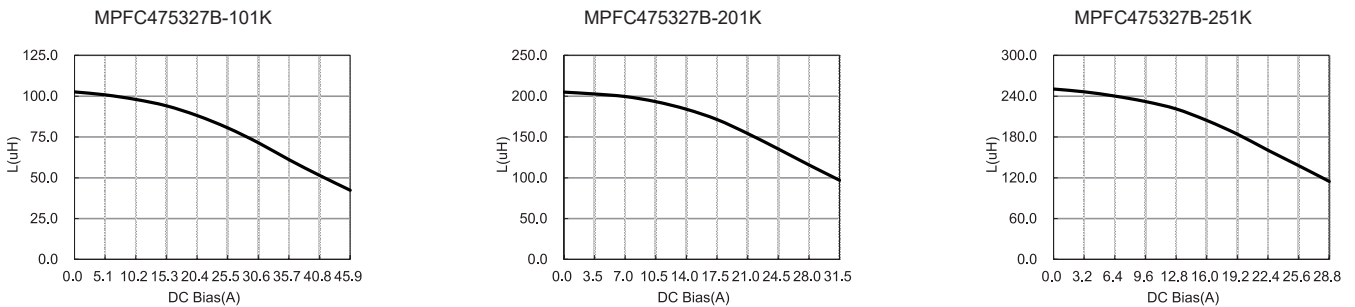
Fig. 1

Fig. 2

Note:
 Fig.1 : PIN2 & PIN4 provided for mounting stability only.
 Fig.2 : PIN1 & PIN3 provided for mounting stability only.

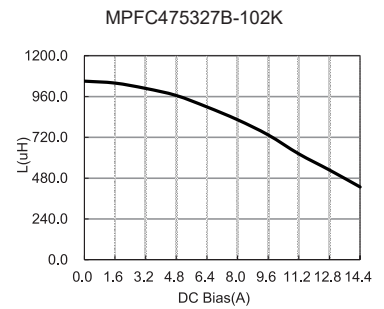
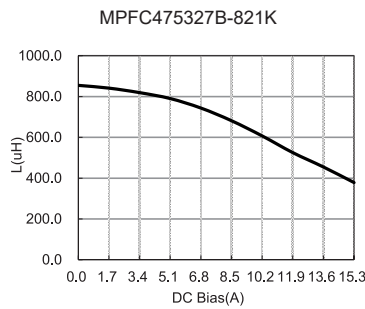
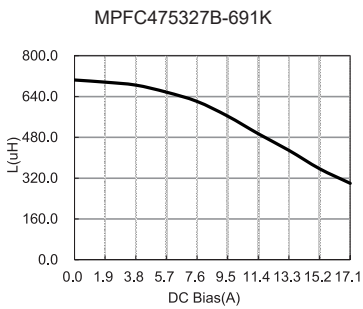
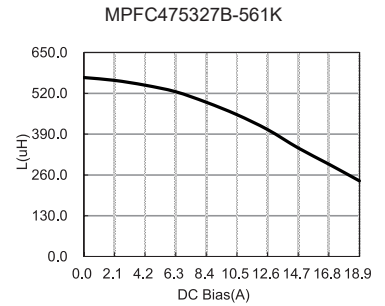
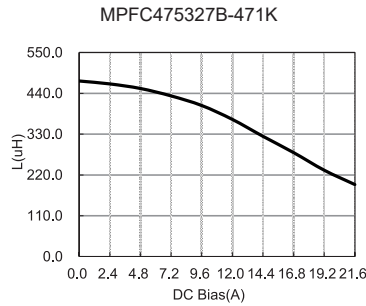
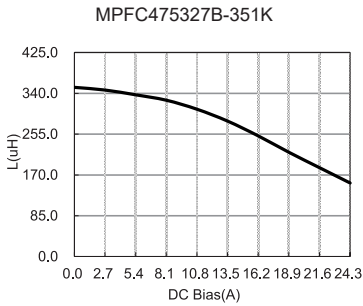
Dimensions : Millimetres

Inductance vs. Current Characteristics



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Part Number Table

Description	Part Number
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 100uH	MPFC475327B-101K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 200uH	MPFC475327B-201K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 250uH	MPFC475327B-251K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 350uH	MPFC475327B-351K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 470uH	MPFC475327B-471K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 560uH	MPFC475327B-561K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 690uH	MPFC475327B-691K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 821uH	MPFC475327B-821K
Power Factor Correction Choke, Foot height 46.5mm × 27mm, 1000uH	MPFC475327B-102K

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