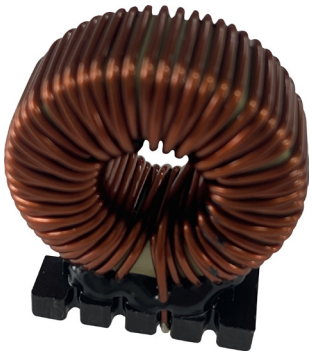
Power Factor Correction Choke

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

Specification

Inductance Range	: 100uH to 1000uH.
Foot Print	: 33mm × 18mm max., 39.5 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.	Irms[3] (A) @25°C
MPFC334018B-101K	100	23	12.7	75.5	16.6	64.8	24.8	44.8	11.9
MPFC334018B-201K	200	43.5	9	149.2	11.8	127.9	17.6	88.6	8.5
MPFC334018B-251K	250	56	8.1	185.6	10.6	159.2	15.8	110.2	7.4
MPFC334018B-351K	350	77	6.8	262.8	8.9	225.3	13.3	156	6.1
MPFC334018B-471K	470	108	5.9	344.5	7.8	295.4	11.6	204.5	5.1
MPFC334018B-561K	560	125	5.4	417.8	7	358.2	10.5	248	4.8
MPFC334018B-691K	690	165	4.9	508.7	6.4	436.2	9.5	302	4.1
MPFC334018B-821K	820	185	4.4	608.5	5.8	521.8	8.7	361.3	3.9
MPFC334018B-102K	1000	255	4	742.7	5.3	636.9	7.9	441	3.2

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz,0.25V@ 25ºC.
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. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25ºC).

Mechanical dimensions

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	Fig.
MPFC334018B-101K	33.0	18	36.5	5	12.5	/	/	Φ1.4	1
MPFC334018B-201K	33.0		39.5		/	10	12	Φ1	2
MPFC334018B-251K	32.5		39.0						
MPFC334018B-351K	32.5		39.0						
MPFC334018B-471K	32.5		39.0						
MPFC334018B-561K	32.5		39.0						
MPFC334018B-691K	32.0		38.5						
MPFC334018B-821K	32.0		38.5						
MPFC334018B-102K	32.0		38.5						

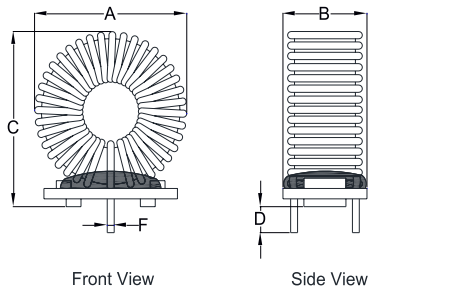


Fig. 1

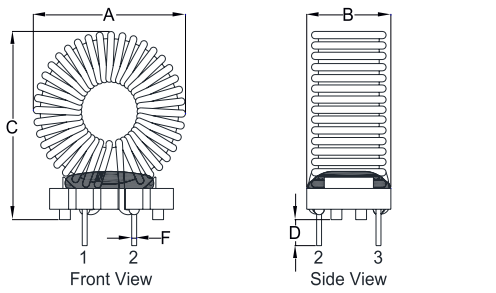


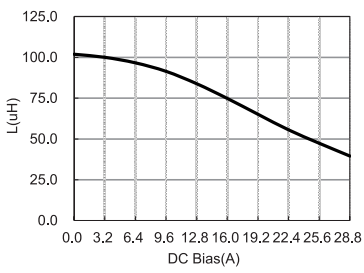
Fig. 2

Note:PIN1 & PIN3 provided for mounting stability only.

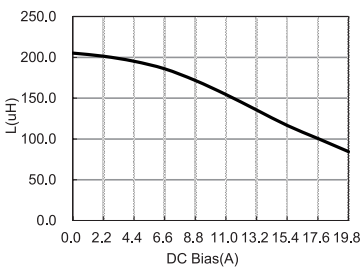
Dimensions : Millimetres

Inductance vs. Current Characteristics

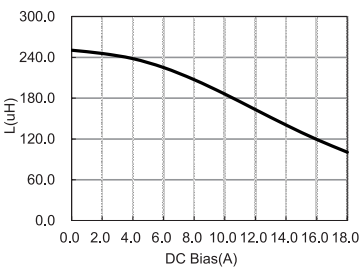
MPFC334018B-101K



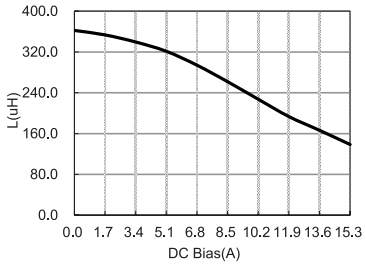
MPFC334018B-201K



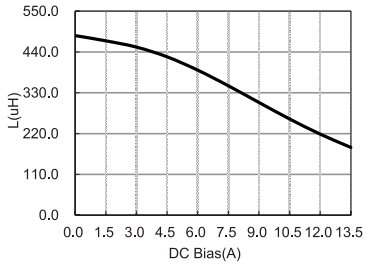
MPFC334018B-251K



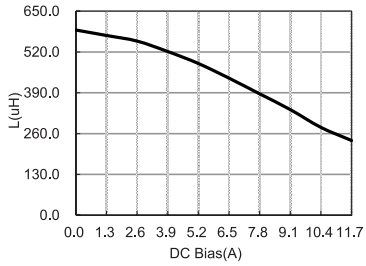
MPFC334018B-351K



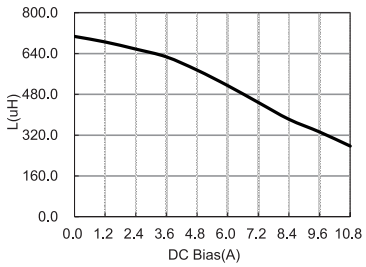
MPFC334018B-471K



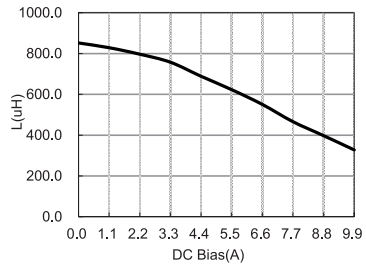
MPFC334018B-561K



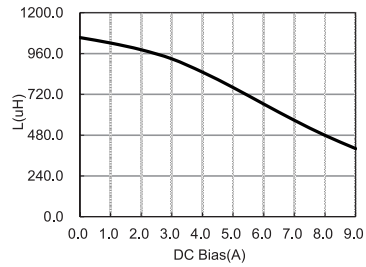
MPFC334018B-691K



MPFC334018B-821K



MPFC334018B-102K



Part Number Table

Description	Part Number
Power Factor Correction Choke, Foot height 33mm × 18mm, 100uH	MPFC334018B-101K
Power Factor Correction Choke, Foot height 33mm × 18mm, 200uH	MPFC334018B-201K
Power Factor Correction Choke, Foot height 33mm × 18mm, 250uH	MPFC334018B-251K
Power Factor Correction Choke, Foot height 33mm × 18mm, 350uH	MPFC334018B-351K
Power Factor Correction Choke, Foot height 33mm × 18mm, 470uH	MPFC334018B-471K
Power Factor Correction Choke, Foot height 33mm × 18mm, 560uH	MPFC334018B-561K
Power Factor Correction Choke, Foot height 33mm × 18mm, 690uH	MPFC334018B-691K
Power Factor Correction Choke, Foot height 33mm × 18mm, 821uH	MPFC334018B-821K
Power Factor Correction Choke, Foot height 33mm × 18mm, 1000uH	MPFC334018B-102K