

Description

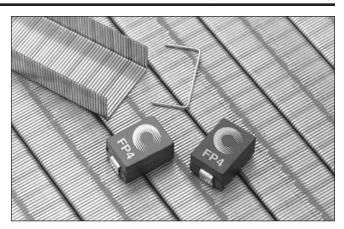
- 155C maximum total temperature operation
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
- Inductance values from 0.100 uH to 0.200 uH
- Current range up to 64 Amps
- Meets UL 94V-0 flammability standard
- RoHS Compliant (-R option)

Applications

- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies
 Environmental Data

• Storage temperature range: -40C to +155C

- Operating ambient temperature range: -40C to +155C (range is application specific).
- Infrared reflow temperature: +260C for 10 seconds maximum



Packaging

• Supplied in tape and reel packaging, 900 parts per reel

OPTION CODE				
Option Code	Description			
-R	RoHS compliant version			

4) DC current for an approximate ∆T of 40°C without core loss. Derating is

necessary for AC currents. PCB layout, trace thickness and width, airflow, and

is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application. 5) Peak Current for approximately 30% rolloff @ 20°C

proximity of other heat generating components will affect the temperature rise. It

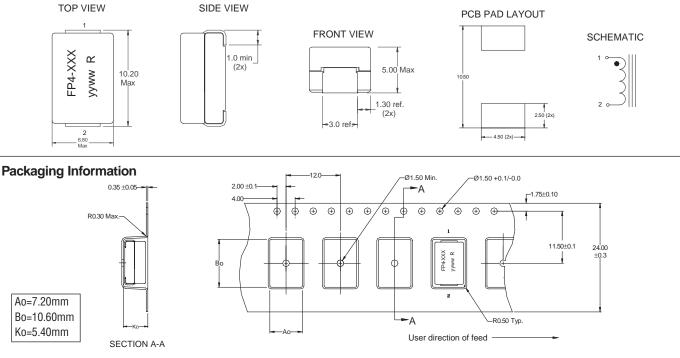
Part Number	Rated Inductance µH	OCL (2) ± 15% μΗ	lsat (5) Amperes Peak	Irms (4) Amperes	DCR Ω @ 20°C (Nom.)	DCR Ω @ 20°C (Max.)	Volts (3) µSec (ref.)
FP4-100	0.100	0.100	64	40	0.00048	0.00065	1.33
FP4-120	0.120	0.120	54	40	0.00048	0.00065	1.33
FP4-150	0.150	0.150	42	40	0.00048	0.00065	1.33
FP4-200	0.200	0.200	30	40	0.00048	0.00065	1.33

1) Units supplied in Tape & Reel packaging; 900 parts on 13" diameter reel. 2) OCL (Open Circuit Inductance) Test parameters: 1MHz, .100Vrms,

0.0Adc & ISAT @20°C

3) Applied Volt-Time product (V- μ S) across the inductor. This value represents the applied V- μ S at 500kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

Mechanical Diagrams

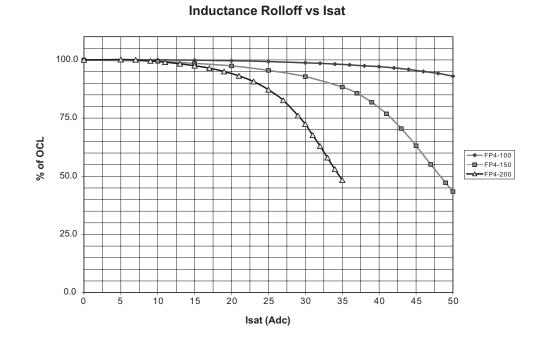


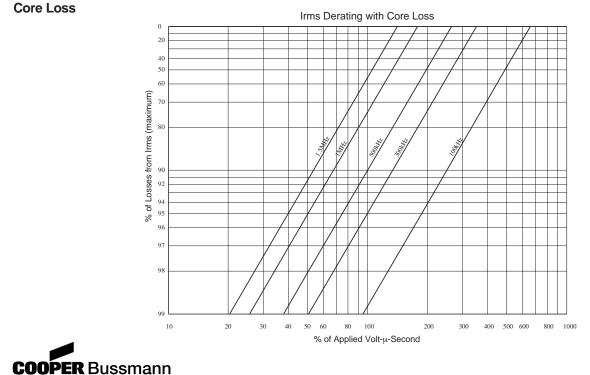
COILTRONICS® FLAT-PAC™ 4 5mm Height Inductors (Surface Mount)





Rolloff





PM-4119 9/05

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