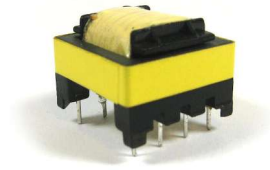


## SFL series - PFC inductors - transition mode 50-100W

- Inductors for active PFC Transition-Critical-Boundary Mode
- Suited for PFC converters based on the chips shown in the introduction page
- Excellent power/dimensions ratio
- Low power loss for high PFC efficiency and negligible inductance drop for best THD
- Suitable for Wide range and European range mains voltage
- Auxiliary winding for bias and zero current detect
- Also suitable for buck and boost converters
- Custom versions on request



Code	Inductance <sup>1</sup>	DCR Typ @20 °C Main winding	DCR Typ @20 °C Aux winding	Main/Aux Turns ratio	Main/Aux Dielectric Strength
SFLE2001	610 μH	690 mΩ	425 mΩ	10:1	1.0KV

Dimensions	mm	Layout (bottom view)	Drawing	.stp file Download
A max	22.2	<p>pin 1 missing for reference</p>		
B max	21.9			
H max	16.6			
X typ	5.0			
Y typ	15.0			
L min	2.5			
D typ (Ø)	0.7			

### PFC inductor selection table for Transition Mode - Critical Mode - Boundary Mode pre-regulators

mains voltage range (50-60Hz)	Max Output Power <sup>2</sup>	Output Voltage Range
85...264Vac	50W	395...450Vdc
180...264Vac	100W	395...450Vdc

The PCB layouts are referred to the standard products. The same are strongly suggested for customized products too.

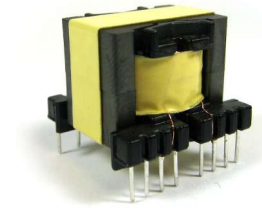
- Our experience and proprietary software allow an optimal inductor design, considering skin effect, proximity effect, and actual core loss in spite of the complex current wave shape. This allows the best efficiency, size and so on.
- For customized products, fill in the "PFC inductor request form", we will support you for the best inductor definition, considering every detail including skin effect, proximity effect and size.
- Windings temperature should not exceed 100°C continuous, 115°C for brief times.

<sup>1</sup> Tolerances ±10% - Measured @10KHz-100mV

<sup>2</sup> Referred to 40°C max ambient temperature. Dependently to working conditions, actual max power could be higher than rated. Working with actual output power very lower than rated in combination with some input/output voltages, the power factor correction could result unsatisfactory. Contact our technical service for more info. Output power is related to each inductor (doubled on two phase interleaved configuration).

<sup>nb</sup> The user should perform any compliance verification to technical and safety standard requirement according to the application field.

- **Inductors for active PFC Transition-Critical-Boundary Mode**
- Suited for PFC converters based on the chips shown in the introduction page
- Excellent power/dimensions ratio
- Low power loss for high PFC efficiency and negligible inductance drop for best THD
- Suitable for Wide range and European range mains voltage
- Auxiliary winding for bias and zero current detect
- Also suitable for buck and boost converters
- Custom versions on request



Code	Inductance <sup>1</sup>	DCR Typ @20° C Main winding	DCR Typ @20° C Aux winding	Main/Aux Turns ratio	Main/Aux Dielectric Strength
SFLPQ201601	330 μH	335 mΩ	295 mΩ	10:1	1.0KV

Dimensions	mm	Layout (bottom view)	Drawing	.stp file Download
A max	24.5			
B max	24.2			
H max	20.3			
X typ	5.0			
X1 typ	3.8			
X2 typ	2.5			
X3 typ	20.2			
X4 typ	20.0			
Y typ	20.3			
L min	3.0			
D typ (∅)	0.6			

### PFC inductor selection table for Transition Mode - Critical Mode - Boundary Mode pre-regulators

mains voltage range (50-60Hz)	Max Output Power <sup>2</sup>	Output Voltage Range
85...264Vac	95W	395...450Vdc
180...264Vac	170W	395...450Vdc

The PCB layouts are referred to the standard products. The same are strongly suggested for customized products too.

-Our experience and proprietary software allow an optimal inductor design, considering skin effect, proximity effect, and actual core loss in spite of the complex current wave shape. This allows the best efficiency, size and so on.

-For customized products, fill in the "PFC inductor request form", we will support you for the best inductor definition, considering every detail included skin effect, proximity effect and size.

-Windings temperature should not exceed 100°C continuous, 115°C for brief times.

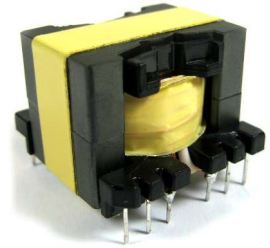
<sup>1</sup> Tolerances ±10% - Measured @10KHz-100mV

<sup>2</sup> Referred to 40°C max ambient temperature. Dependently to working conditions, actual max power could be higher than rated. Working with actual output power very lower than rated in combination with some input/output voltages, the power factor correction could result unsatisfactory. Contact our technical service for more info. Output power is related to each inductor (doubled on two phase interleaved configuration).

<sup>nb</sup> The user should perform any compliance verification to technical and safety standard requirement according to the application field.

## SFL series - PFC inductors - transition mode 200-400W

- Inductors for active PFC Transition-Critical-Boundary Mode
- Suited for PFC converters based on the chips shown in the introduction page
- Excellent power/dimensions ratio
- Low power loss for high PFC efficiency and negligible inductance drop for best THD
- Suitable for Wide range and European range mains voltage
- Auxiliary winding for bias and zero current detect
- Also suitable for buck and boost converters
- Custom versions on request



Code	Inductance <sup>1</sup>	DCR Typ @20 °C Main winding	DCR Typ @20 °C Aux winding	Main/Aux Turns ratio	Main/Aux Dielectric Strength
SFLPQ262001	175 µH	105 mΩ	250 mΩ	8,5:1	1.0KV

Dimensions	mm	Layout (bottom view)	Drawing	.stp file Download
A max	28.0	<p>pin 1 missing for reference</p>		
B max	30.5			
H max	21.8			
X typ	7.5			
X1 typ	3.8			
X2 typ	22.7			
Y typ	25.5			
L min	3.0			
D typ (Ø)	0.6			

### PFC inductor selection table for Transition Mode - Critical Mode - Boundary Mode pre-regulators

mains voltage range (50-60Hz)	Max Output Power <sup>2</sup>	Output Voltage Range
85...264Vac	200W	395...450Vdc
180...264Vac	400W	395...450Vdc

The PCB layouts are referred to the standard products. The same are strongly suggested for customized products too.

- Our experience and proprietary software allow an optimal inductor design, considering skin effect, proximity effect, and actual core loss in spite of the complex current wave shape. This allows the best efficiency, size and so on.
- For customized products, fill in the "PFC inductor request form", we will support you for the best inductor definition, considering every detail included skin effect, proximity effect and size.
- Windings temperature should not exceed 100°C continuous, 115°C for brief times.

<sup>1</sup> Tolerances ±10% - Measured @10KHz-100mV

<sup>2</sup> Referred to 40°C max ambient temperature. Dependently to working conditions, actual max power could be higher than rated. Working with actual output power very lower than rated in combination with some input/output voltages, the power factor correction could result unsatisfactory. Contact our technical service for more info. Output power is related to each inductor (doubled on two phase interleaved configuration).

<sup>nb</sup> The user should perform any compliance verification to technical and safety standard requirement according to the application field.