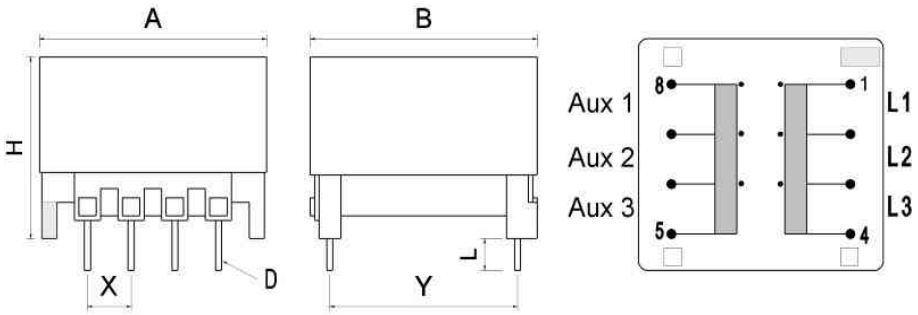
SFL series – Multiple PFC inductors - transition mode 87-290W

- **Multiple inductor for active PFC Transition-Critical-Boundary Mode**
- Suitable for Wide range and European range main voltage
- Three inductance values for the best performances in a wide application range
- Four aux turns ratios available for bias and zero current detect
- Very good power/encumbrance ratio
- Low power loss for high PFC efficiency and negligible inductance drop
- Also suitable for buck and boost converters
- Customized items on request

PRELIMINARY

Code	Inductance[1]	DCR Typ @20°C Main winding series	DCR Typ @20°C Aux winding series	Aux turns ratio	Main/Aux Dielectric Strength
SFLEV2501	327 – 550 - 798 µH	720 mΩ	660 mΩ	see table on bottom	1,0KV

Dimensions	mm	Layout (bottom view)	Drawing
A max	26,9		
B max	27,8		
H max	21,1		
X typ	5,0		
Y typ	20,0		
L min	2,5		
D typ (□)	0,64		



Input Voltage range[2] (50-60Hz)	Inductance[1] (pins)	Max Output Power[2]	available Aux Ts ratio (pins)				Output Voltage Range
90...264Vac	327 µH (3-4)	135W	1:16 (7-6)	1:11 (8-6)	1:9 (7-5)	1:7 (8-5)	390...440Vdc
	550 µH (2-4)	105W	1:16 (7-6)	1:14 (8-6)	1:12 (7-5)	1:9 (8-5)	390...440Vdc
	798 µH (1-4)	87W	1:25 (7-6)	1:17 (8-6)	1:14 (7-5)	1:11 (8-5)	390...440Vdc
180...264Vac	327 µH (3-4)	290W	1:16 (7-6)	1:11 (8-6)	1:19 (7-5)	1:7 (8-5)	390...440Vdc
	550 µH (2-4)	220W	1:16 (7-6)	1:14 (8-6)	1:2 (7-5)	1:9 (8-5)	390...440Vdc
	798 µH (1-4)	180W	1:25 (7-6)	1:17 (8-6)	1:14 (7-5)	1:11 (8-5)	390...440Vdc

Our experience and proprietary software allow an optimal design considering parasitic currents effects and actual core loss, so achieving the best performance and size.

[1] *Tested @10KHz-100mV, ±10% tolerance.*
[2] *Actual max power is affectd by min. input voltage, output voltage and ambient temperature. The inductor should be properly tested in the actual application at worst conditions. Windings hot spot should not exceed 120°C .*