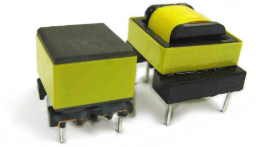


- Designed for FSK, PSK, OFDM, G3-PLC, etc. power line modem based on ST Microelectronics ST75xx, Maxim MAX298x-MAX299x-MAX7049, Teridian 71M6xxx, Echelon PL31x0, Cypress CY8CPLC10-CY8CLED16P01, Texas Instruments PGA112AIDGSxx-OPA564AIDWPR, TMS320F28xx, AFE031, NXP TDA5051, etc.
- Small footprint
- Wide operating frequency range 10-500kHz¹
- Up to 6000V Pri-Sec dielectric strength
- 80°C max ambient temperature
- Custom versions on request



Code	Primary Inductance ²	Turns Ratio ³	Primary V _μ Sec ⁴	DC bias max ⁵	Leakage induct. typ ²	DCR Prim max	DCR Sec max	Pri-Sec Dielectric Strength	Creepage min ⁶	Pri-Sec Capacitance typ ⁷
SMLEP1301	1030 μH ±30%	1:1	28	22 mA	2,0 μH	215 mΩ	215 mΩ	3,0 kV	3,0 mm	15 pF
SMLEP1302	610 μH ±30%	1:(1+1)	21	39 mA	2,0 μH	153 mΩ	2x118 mΩ	3,0 kV	3,0 mm	15 pF
SMLEP1303	1395 μH ±30%	1:(1+1)	32	33 mA	2,4 μH	455 mΩ	2x350 mΩ	3,0 kV	3,0 mm	12 pF
SMLE1601	990 μH -25% +50%	1:1	32	43 mA	2,7 μH	293 mΩ	233 mΩ	6,0 kV	6,0 mm	15 pF
SMLE1602	730 μH ±35%	1:(1+1)	19	43 mA	3,1 μH	310 mΩ	2x375 mΩ	6,0 kV	6,0 mm	25 pF

Dimensions (mm)	Drawing	SMLEP1301 (bottom view)	SMLEP1302-03 (bottom view)
a max	14,3		
b max	14,5		
h max	13,2		
x typ	5,0		
y typ	10,0		
d typ	□ 0,5		
l min	3,0		

Dimensions (mm)	Drawing	SMLE1601 (bottom view)	SMLE1602 (bottom view)
a max	17,3		
b max	19,2		
h max	14,2		
x typ	3,2		
y typ	15,5		
d typ	∅ 0,7		
l min	2,8		

- Actual temperature of the transformers should not exceed 100°C. Windings DCR value in worst condition must be ≤ (DCR at 20°C * 1,3). Measure it immediately after thermal rising, it decrease quickly.

¹ Except SMLE1602, whose working frequency range is 10-200kHz.

² Primary inductance tested @100KHz-1V.

³ Each winding can be used as primary or as secondary, for example to have turns ratio 1:2 or 2:1.

⁴ Max voltage-time area with bidirectional signals.

⁵ Superimposed DC current max for pri inductance tolerance within +30/-50%.

⁶ 6mm creepage/clearance to meet most safety requirements. Actual needs have to be checked before use.

⁷ Prim./Sec. capacitance tested @100KHz-1V.

^{nb} The necessary tests and verifications of compliance with the technical and safety standard requirements lie within the exclusive competence of the customer