

HIGH FREQUENCY TRANSFORMERS FOR PCB MOUNTING

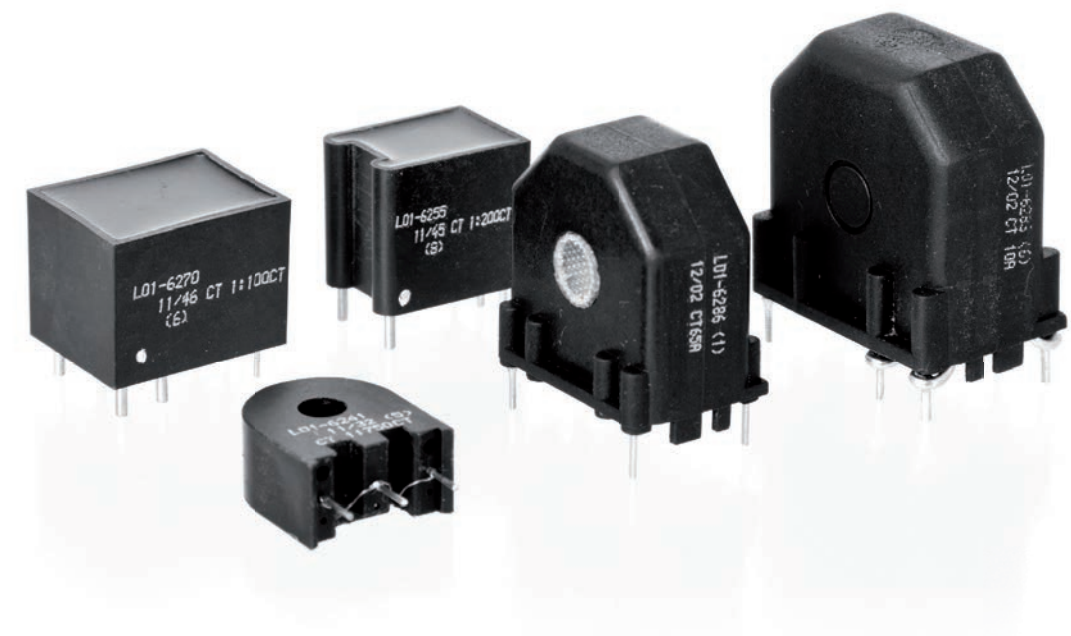
SERIES 62XX



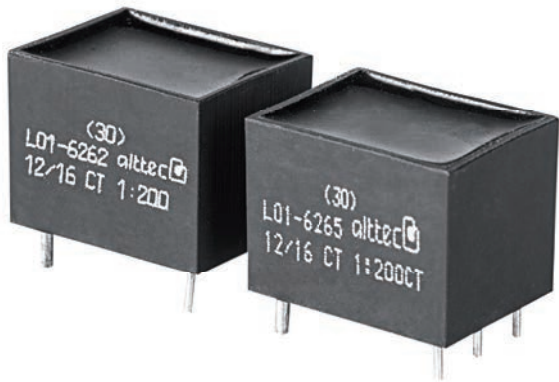
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APPLICATIONS

This kind of current sensors are used for measuring, controlling and monitoring AC currents. Mainly used in switch mode power supplies as a feedback element between output and pulse control.

Additional fields of application:

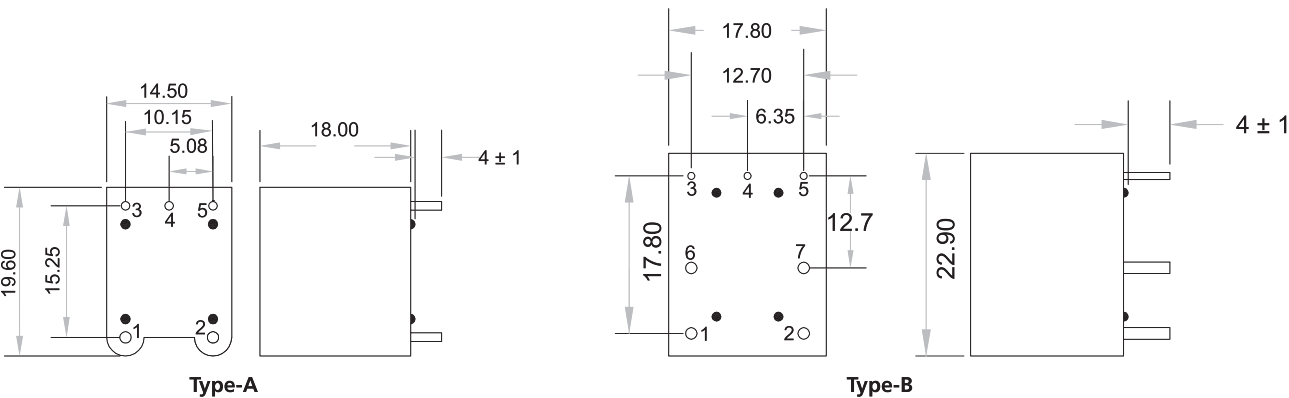
- Motor current load/overload detection
- Isolated bi-directional current sensor

FEATURES

- Primary current range up to 15 A
- Fully encapsulated for THT mounting use
- Frequency range 20 kHz - 200 kHz
- Primary to secondary insulation 2.5 kV AC
- Operation temperature range -40 °C to +120 °C
- Fully RoHs compliant
- Central tapped (CT) versions available with Pin 2
- Place of manufacture is certified according to ISO 9001:2008 / ISO 14001:2004
- More details on request or in single data sheets

ELECTRICAL SPECIFICATION @ 25°C

Part Number		Prim./Sec. Ratio	*1 L_{sec} [mH] min.	[Ω] min. DC	*2 Sec. term. R [Ω] nominal	I_{sec} [mA] max	*3 Volt [μsec] max.	Schematic
Typ A	Typ B							
L01-6250	L01-6260	1:50	5	0.65	50	300	175	
L01-6251	L01-6261	1:100	20	1.30	100	150	350	
L01-6252	L01-6262	1:200	80	4.50	200	75	700	
L01-6253	L01-6263	1:50 CT	5	0.65	25 + 25	300	175	
L01-6254	L01-6264	1:100 CT	20	1.30	50 + 50	150	350	
L01-6255	L01-6265	1:200 CT	80	4.50	100 + 100	75	700	
-	L01-6266	1:50	5	0.65	50	300	175	
-	L01-6267	1:100	20	1.30	100	150	350	
-	L01-6268	1:200	80	4.50	200	75	700	
-	L01-6269	1:50 CT	5	0.65	25 + 25	300	175	
-	L01-6270	1:100 CT	20	1.30	50 + 50	150	350	
-	L01-6271	1:200 CT	80	4.50	100 + 100	75	700	



All dimensions are in mm/Linear dimensional tolerance ± 0,2mm

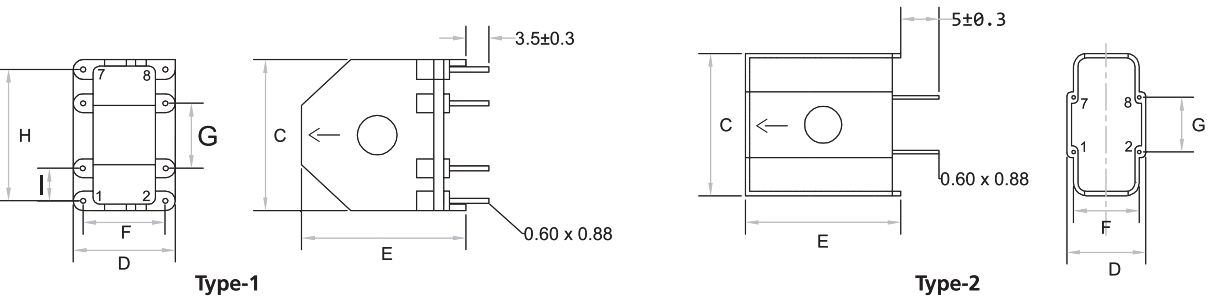
ELECTRICAL SPECIFICATION @ 25°C

Part Number	Prim./Sec. Ratio	*1 L_{sec} [mH] min.	[Ω] min. DC	*2 Sec. Term. Resistance [Ω] nominal	I_{sec} [mA] max.	*3 Volt [μsec] max.	Schematic
L01-6230	1:50	6	0.6	50	300	175	
L01-6231	1:100	25	1.1	100	150	350	
L01-6232	1:200	100	4.5	200	75	700	
L01-6233	1:300	250	10	300	50	900	
L01-6234	1:500	700	25	500	30	1500	
* L01-6235	1:750	1682	43	750	40	3750	
L01-6236	1:50 CT	6	0.3/0.3	25 + 25	300	175	
L01-6237	1:100 CT	25	0.55/0.55	50 + 50	150	350	
L01-6238	1:200 CT	100	2.25/2.25	100 + 100	75	700	
L01-6239	1:300 CT	250	5.0/5.0	150 + 150	50	900	
L01-6240	1:500 CT	700	12.5/12.5	250 + 250	30	1500	
* L01-6241	1:750 CT	1682	21.5/21.5	375 + 375	40	3750	

* current range I_{Prim} up to 30 A

ELECTRICAL SPECIFICATION @ 25°C

Part Number	Prim./Sec. Ratio	I_{prim} [A] max	Volt [μsec] max.	Schematic	Case type	Dimension							
						C	D	E	F	G	H	I	Hole
L01-6280	1:100	1	350		1	17.8	12.8	20	10	5	15	5	-
L01-6281	1:100	2	550		1	23	15.5	25	12.5	10	20	5	-
L01-6282	1:100	5	1500		2	32.5	18	35.5	15	12.5	-	-	-
L01-6283	1:100	10	1500		1	32	20.5	35	17.5	12.5	27.5	7.5	-
L01-6284	1:100	50	1500		2	32.5	18	35.5	15	12.5	-	-	ø 8
L01-6285	1:500	50	2700		1	23	15.5	25	12.5	10.5	20	5	ø 5
L01-6286	1:500	65	4200		1	27	18	30.5	15	12.5	22.5	5	ø 5
L01-6287	1:500	80	7500		2	32.5	18	35.5	15	12.5	-	-	ø 8



NOTE:

1* L_{sec} : measurement conditions:
10 kHz / 10 mV for ratio 1:50 to 1:500
1 kHz / 10 mV for ratio 1:750

2* This nominal terminated resistance value will generate (for each primary turn with 1 A) approximately 1 V. Changing the resistance will not effect the linear characteristic line, as long as the maximum V/μsec value is not exceeded.

$$3* V_{μsec} = \frac{R * I_s}{2f}$$

$V_{μsec}$: Volt / microseconds
 $R(Ω)$: Terminated resistance
 $I_s(A)$: Secondary current
 $f(Hz)$: Frequency

