

提供专业的电力电子无源器件产品及解决方案
Provide professional electronic electronic passive devices products and solutions



GATALOGUE 2024

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EI (LAMINATED) POWER TRANSFORMER

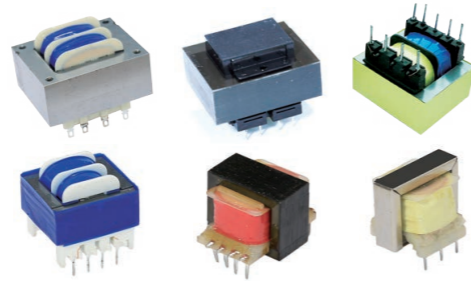
PCB Transformer (open frame)

FEATURES :

Low standby power consumption type (under 0.9W) ; As low as 0.1w
0.1w is also possible ;0.1w

APPLICATIONS :

50/60Hz power supply electrical home appliance medical equipments
communication device solar energy and inverter ;
Custom made is acceptable

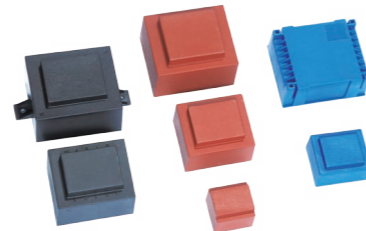


Product name	QTY OF PIN PRI-SEC	Standard output VA	Weight(kg)	UL System number	Dimension(mm)		
					L	W	H
AL-28-12	4-5	1.2	0.07	70A	28.5	31	29
AL-28-14	4-5	1.4	0.08	70A	28.5	31	31
AL-28-16	4-5	1.6	0.09	70A	28.5	31	33
AL-35-12	4-7	2	0.1	70B	35.5	32	32
AL-35-14	4-7	2.5	0.12	70B	35.5	32	34
AL-35-16	4-7	3	0.14	70B	35.5	32	36
AL-35-20	4-3	3.5	0.17	70B	35.5	30	41.5
AL-41-14	4-5	3.5	0.15	70C	41.5	33.5	37
AL-41-16	4-5	4.5	0.2	70C	41.5	33.5	39
AL-41-21	4-5	6	0.24	70C	41.5	33.5	45
AL-41-23	4-5	6.5	0.27	70C	41.5	33.5	46.5
AL-48-13	5-5	4.5	0.18	70D	48.5	40.5	29.5
AL-48-15	5-5	7.5	0.25	70D	48.5	40.5	35
AL-48-18	5-5	8	0.3	70D	48.5	40.5	44
AL-48-23	5-7	10.5	0.36	70D	48.5	40.5	48.5
AL-48-28	5-5	14.5	0.46	70D	48.5	40.5	54

PCB Transformer (encapsulated)

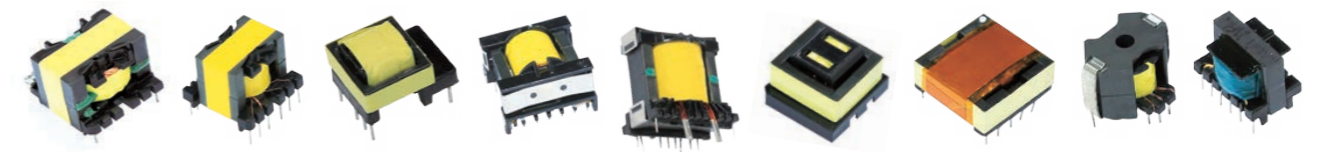
FEATURES :

0.35VA to 60VA, Vacuum filling ;Two compartments bobbins ;Self-extinguishing plastics UL 94 VO ;Degree of protection IP 00 ;40 grams weight ;Resin class B CEI 85 : (20000 h testing to CEI 126) ;Inherently short-circuits proof ;Insulation voltage 4 KV(6 KV ALTRANSFO test) ;100 % tested production ;Certification : CCA procedure on request ; Custom made is acceptable



Product Name	Voltage		Power	Dimension(mm)			Product Name	Voltage		Power	Dimension(mm)		
	Input	Output		L	W	H		Input	Output		L	W	H
AL 0.35/2/6	120VAC/230Vac	2*6Vac	0.35VA	22.7	22	15	AL 5.0/1/12	120VAC/230Vac	12Vac	5VA	37	44	33
AL 0.35/2/12	120VAC/230Vac	2*12Vac	0.35VA	22.7	22	15	AL 5.0/1/18	120VAC/230Vac	18Vac	5VA	37	44	33
AL 0.5/2/9	120VAC/230Vac	2*9Vac	0.5VA	22.7	22	19	AL 5.0/2/9	120VAC/230Vac	2*9Vac	5VA	37	44	33
AL 1.0/2/12	120VAC/230Vac	2*12Vac	1.0VA	27.3	32.3	21.8	AL 5.0/2/15	120VAC/230Vac	2*15Vac	5VA	37	44	33
AL 1.5/2/6	120VAC/230Vac	2*6Vac	1.5VA	27.3	32.3	23.8	AL 10/1/6	120VAC/230Vac	6Vac	10VA	43	51	34.6
AL 1.5/2/15	120VAC/230Vac	2*15Vac	1.5VA	27.3	32.3	23.8	AL 10/1/15	120VAC/230Vac	15Vac	10VA	43	51	34.6
AL 2.3/2/9	120VAC/230Vac	2*9Vac	2.3VA	27.3	32.3	29	AL 10/2/9	120VAC/230Vac	2*9Vac	10VA	43	51	34.6
AL 2.3/2/15	120VAC/230Vac	2*15Vac	2.3VA	27.3	32.3	29	AL 16/1/8	120VAC/230Vac	8Vac	16VA	48	57	39
AL 3.2/2/6	120VAC/230Vac	2*6Vac	3.2VA	35	41	30.8	AL 16/1/12	120VAC/230Vac	12Vac	16VA	48	57	39
AL 3.2/2/12	120VAC/230Vac	2*12Vac	3.2VA	35	41	30.8	AL 16/1/18	120VAC/230Vac	18Vac	16VA	48	57	39
AL 5.0/1/6	120VAC/230Vac	6Vac	5VA	37	44	33	/	/	/	/	/	/	

High Frequency Transformer



Ferrite core transformer, Drive transformer, Lighting transformer, Converter transformer, Flyback transformer, Push-pull transformer, (EE, EFD, EPC, ER, ETD, Pq, POT, RM types)

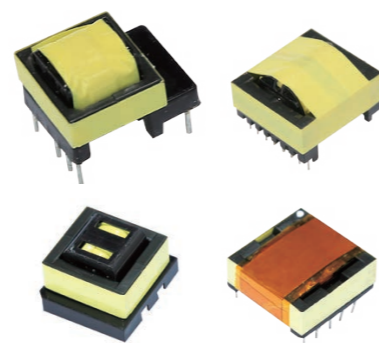
Series	Product Name	Output power maimum	Windings					Frequency
			Pins	Voltage	Current maimum	Inductance (+/-10)		
E10	AL-E10110	4.5W	S1	4-4	3.3-6Vdc	0.4Adc	1250uH	60KHZ
EF12.6	AL-E12610	3W	S1	5-5	0.25Vdc	0.01A-10Adc	200uH	132KHZ
E16	AL-E16106	5W	Pri	4-6	85-265Vdc	0.25-15Adc	390uH	132KHZ
			Aux	2-1	7-14Vdc	0.1Adc		
			S1	9-10	3.3-7Vdc	1.2Adc		
			S2	7-8	8-17Vdc	0.4Adc		
E19	AL-E19100	18W	Pri	4-6	85-265Vdc	0.8Adc	1250uH	132KHZ
			Aux	2-1	7-12Vdc	0.1Adc		
			S1	9-10	3.3-7Vdc	3Adc		
			S2	7-8	8-16.5Vdc	1.4Adc		
EF20	AL-E20101	20W	S1	4-5	9-15Vdc	1.5Adc	1100uH	132KHZ
EF25	AL-EF2511	45W	S1	7-8	8-16Vdc	1.5Adc	750uH	132KHZ
ERL28	AL-EC2850	60W	Pri	5-1	185-265Vdc	6Adc	500uH	60 or 132KHZ
			Aux	8-9	15Vdc			
			S1	14+15/12+13	3.3Vdc	7Adc		
			S2	11/12+13	5Vdc			
			S3	16-10	12Vdc	2Adc		
			S4	17-10	18Vdc	2Adc		
S5	18-10	30Vdc	0.5Adc					
ETD39	AL-ETD3901	140W	S1	14-15	3.3-6.5Vdc	5Adc	440uH	132KHZ
ETD44	AL-ED4450	180W	Pri	5-7	185-265Vdc	8Acadc	300uH	60 or 132KHZ
			Aux	3-2	7-14Vdc	0.5Adc		
			S1	16-17	3.3-6.5Vdc	6Adc		
			S2	15-17	8.5-17Vdc	5Adc		
			S3	13-14	3.3-6.5Vdc	6Adc		
S4	12-14	8.5-17Vdc	5Adc					
ETD49	AL-ETD4901	400W	S1	10-10	8.5-17Vdc	5Adc	300uH	60 or 132KHZ
EE55/65/75	AL-E5100	1000W-5000W	S2/3/4	10-10	50Vdc	100Adc	2400uH	100KHz
PQ26	AL-PQ2601	30W	S1	6+6	10Vdc	5Adc	400uH	200KHz
PQ32	AL-PQ3201	500W	S1	6+6	10Vdc	200Adc	400uH	300KHz
RM6	AL-RM601	20w	S1	4+4	5VC	0.01A-1000A	750uH	150KHz
RM8	AL-RM801	20w	S1	6+6	8.5-17Vdc	0.01A-1000A	500uH	200KHz
RM10	AL-RM1001	50w	S1	6+6	15vdc	0.01A-1000A	750uH	250KHz
RM12	AL-RM1201	400W	S1	6+6	24vdc	0.01A -1000A	500uH	300KHz

High Frequency Transformer

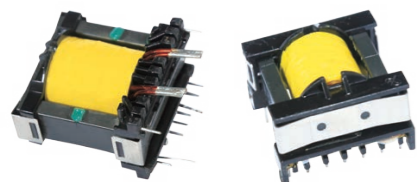
EE,EF,ERL Series,EE8.3,EE10,EE13,EE16,EE20,EE25,EE55,EE65, EE75,EF20,EF25,EFD25,ERL28,ERL35, ERL39

General Specification :

- 1.Dielectric Strength : 1250/2500VRMSHipot
- 2.Insulationsystems:CLASS B(130°C)
- 3.Low Magnetic Leakage
4. Low loss
5. Low Distributed Capacity
6. Wide range of work frequency :50KHz~500KHz



Appiy: Widely used for fax machine, data transmission,ADSL,HDSL,telephone interconnect,digital telecommunication and so on.



ETD Series

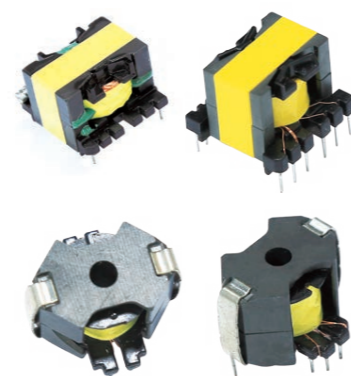
General Specification :

1. Power : 20W~1000W
- 2.Insulationsystems:CLASS B(130°C)
3. Dielectric Strength: 3750VRMS Hipot
4. FlammabilityRating:UL94-VO

Product Name	Reference Power	Working Frequency	AL (nH/N2)	Power Loss (W/PRS,Max)
AL-ETD19/27	35W	1KHZ~500KHZ	1720	1.35
AL-ETD24/29	50W	1KHZ~500KHZ	2000	1.88
AL-ETD29/32	75W	1KHZ~500KHZ	2300	3.00
AL-ETD34/35	110W	1KHZ~500KHZ	2800	4.23
AL-ETD39/40	165W	1KHZ~500KHZ	3000	6.34
AL-ETD44/45	260W	1KHZ~500KHZ	3750	9.93
AL-ETD49/50	350W	1KHZ~500KHZ	4000	13.28
AL-ETD54/55	510W	1KHZ~500KHZ	4600	19.56
AL-ETD59/62	800W	1KHZ~500KHZ	6400	30.74

Appiy: Widely used for fax machine, data transmission,ADSL,HDSL,telephone interconnect,digital telecommunication and so on.

Product Name	Reference Power	Working Frequency	Dimensions (mm)		
			L	W	H
AL-PQ2016	18W~36W	50KHZ~100KHZ	23	23	18.3
AL-PQ2020	20W~48W	50KHZ~100KHZ	23	23	22.3
AL-PQ2620	30W~60W	50KHZ~100KHZ	26.5	29.3	21.5
AL-PQ2625	36W~90	50KHZ~100KHZ	26.5	29.3	25
AL-PQ2625	40W~100W	50KHZ~100KHZ	26.5	29.3	29.1
AL-PQ3220	60W~120W	50KHZ~100KHZ	33	34	22.5
AL-PQ3225	70W~150W	50KHZ~100KHZ	33	34	28.5
AL-PQ3230	90W~180W	50KHZ~100KHZ	33	34	32.1
AL-PQ3535	150W~300W	50KHZ~100KHZ	36	39	37.4
AL-RM4	3W	1KHZ~100KHZ	13.5	13.5	9.5
AL-RM5	5W	1KHZ~100KZ	17	17.5	11
AL-RM6	8W	1KHZ~100KZ	20	21	13.5
AL-RM8	12W	1KHZ~100KHZ	26	25	17
AL-RM10	20~28W	1KHZ~100KHZ	32	28.5	20
AL-RM12	30~40W	1KHZ~100KHZ	40	39	26.5
AL-RM14	50W	1KHZ~100KHZ	44.5	43.5	31.5



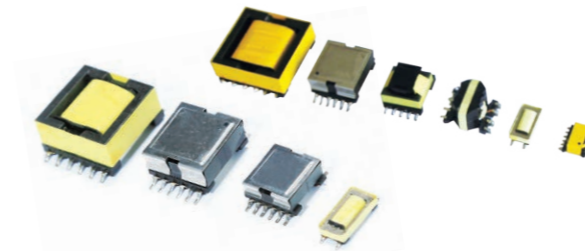
Pq Series /RM Series

General Specification :

1. Power : 18W~300W
2. Insulationsystems:CLASS B(130°C)
3. Dielectric Strength:3750VRMS Hipot
4. FlammabilityRating:UL94-VO

Appiy: Widely used for mobile chargers , PCpower,electronic instruments, SPC exchange, color television, lighting equipmentand so on.

High Frequency Transformer



SMD Transformer

General Specification :

1. Dielectric Strength: 1250/2500VRMS Hipot
2. Insulationsystems:CLASS B(130°C)
3. FlammabilityRating:UL94-VO
4. Small Size
5. Surface-mountable,TapeReel,Suitable for automatic machines
6. Wide range of work Frequency:50KHz~200KHz

Product name	Dimensions (mm)			Pin number
	L	W	H	
AL-EE5.0	5.5	8	4.8	3+3
AL-EE6.3	6.7	9	5.2	3+3
AL-EE8.3	8.8	13.2	8.8	3+3
AL-EE12.5	13.8	18.3	8.9	5+5
AL-EE9.5	10	13.1	5.8	4+4
AL-ER11.5	12.7	12.8	6.35	5+5
AL-ER14.5	16.5	17	8	5+5
AL-EE20	30	23	11.5	6+6
AL-EFD25	32	26	14	6+6
AL-EFD30	37	32	14	6+6

Appiy: Widely used for telecommunications,portable electronics,low power of switch powersupply and so on.

Inductors/Chokes/ Coils

Common mode chokes ,Series inductors,PFC inductors,Storage reactors,Repeating coils,Full-bridge inductors.



FEATURES:

1. High saturation magnetic induction intensity;
2. Core loss is lower than iron core,High flux core, FS-Flux core;
- 3.The magnetostriction coefficient is close to zero, there is no noise in various working environments;
4. It is Curie temperature and Stable performance at high temperature;

APPLICATION:

- 1.EMC filters
- 2.Home Application
- 3.Switched -mode power supplies (SMPS), Power supplies
- 4.Solar inverters
- 5.Uninterruptable power supplies (UPS)
- 6.Welding equipment
- 7.Wind generators
- 8.Frequency converters

FEATURES:

- 1.High performance low loss powder iron core is excellent for high frequency applications
- 2.Low profile, designed for machine placement, SMD types
- 3.Operation temperature range -40°C to +130°C
- 4.Custom-made inductors are available upon request

Product name	Inductance common mode min-(mH)	Rated Current Arms	Resistance per wingding ohm max	Inductance Differential Mode uH min	Resonant Frequency kHz min
AL-U10100	33min	0.18	7	710	210
AL-U10101	18min	0.26	3.5	360	280
AL-U10102	10min	0.35	2	210	400
AL-U10103	4.7min	0.5	0.95	100	610
AL-U10104	2.2min	0.8	0.4	45	910
AL-U10105	1min	1.1	0.21	20	1300
AL-U1106	51min	0.3	4	530	125
AL-U1100	33min	0.35	3	400	170
AL-U1101	18min	0.45	1.7	240	220
AL-U1102	10min	0.6	1	140	320
AL-U1103	4.7min	0.9	0.43	65	480
AL-U1104	2.2min	1.3	0.23	32	740
AL-U1105	1min	1.9	0.1	14	1000

Inductors/Chokes/ Coils

Product name	Inductance at 0 DC	Saturation Current (DC)	Dimensions (mm)	
			L	W
AL-44V/H	0.1uH~60uH	30A~1A	15	7.5
AL-50V/H	0.2uH~94uH	30A~1A	16.5	8
AL-60V/H	0.4uH~20uH	30A~1A	19.5	10
AL-68V/H	0.8uH~250uH	30A~1A	23.5	12
AL-80V/H	2.0uH~400uH	30A~1A	25.5	13
AL-90V/H	3.7uH~680uH	30A~1A	31	17
AL-94V/H	3.0uH~500uH	30A~1A	32	15
AL-106V/H	5.8uH~1080uH	30A~1A	34	16.5
AL-130V/H	8.0uH~1500uH	30A~1A	39.5	19
AL-157V/H	21.5uH~3320uH	30A~1A	49.5	21.5
AL-184V/H	34.0uH~5400uH	30A~1A	56	26
AL-250V/H	102uH~14800uH	30A~1A	75	34
AL-400V/H	190uH~26100uH	30A~1A	130	43



Common mode chokes ,Series inductors ,PFC inductors , Storage reactors ,Repeating coils ,Full-bridge inductors. For noise suppression in light dimmers . Saturable chokes :provides a high impedande for Triac switching interferences ,and a low impedanee for 1k-100MHz component .

APPLICATION:

Widely used for the color television and stereo equipment,uninterrupted power supply, electric appliances, filter,electronicballast,energy-savingand so on.

General Specification :

- 1.Inductance Range: 0.1uH~26.0mH
- 2.Inductances Tolerance: +/-8% at 40KHz
- 3.Saturation Current : 30A-1.0A (DC)



Product name	Power	Inductance+/-15%	Rated current	Resistance	Associated Capapcitor	Appro weight
AL-T22100	150W	3.5mH	0.7Arms	1.5Ω	22nF	13g
AL-T25100	300W	2.8mH	1.3Arms	0.73Ω	47nF	24g
AL-T30100	500W	2.0mH	2.2Arms	0.35Ω	82nF	47g
AL-T42100	1000W	1.3mH	4.5Arms	0.15Ω	220nF	80g
AL-T47100	2200W	450uh	10Arms	0.04Ω	470nF	140g
AL-T51100	4500W	250uH	20Arms	0.014Ω	1nF	250g
AL-T36100	500W	1.8mH	2.2Arms	0.37Ω	82nF	39g

Current Transformer (Split core)

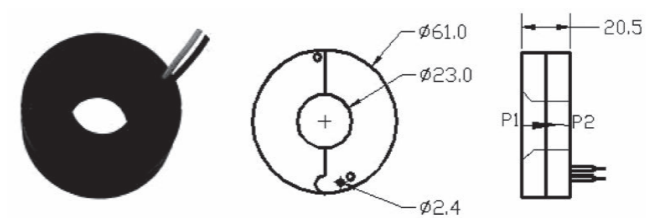
Features:

- 1.UL Approved Class B insulation system;
- 2.Dielectric strength 3000Vrms;
- 3.Specially designed split bobbin;
- 4.Small physical package for tight configurations;
- 5.Cost effective.

Product Name	Rated Input current	Rated Output	Precision Grade	Opening Aperture	Dimension(mm)		
					L	W	H
AL-SCT-T10	5~80A	0~80mA 0.333V	0.5 1.0	10mm	23.1	26	39.3
AL-SCT-T16	5~120A	0~120mA 0.333V	0.5 1.0	16mm	28.6	30.5	44.5
AL-SCT-T24	5~300A	0~500mH 0.333V	0.5 1.0	24mm	46	35	65.4
AL-SCT-T36	50~600A	0~1000mH 0.333V	0.5 1.0	36mm	57.5	41.4	85.2
AL-SCT-T50	100~1200A	0~1000mH 0.333V	0.5 1.0	50mm	81	51.5	120



Current Transformer (Split core)



Product name	Rated Input current	Rated output current	Rated sampling resistance	Rated sampling voltage	Phase shift	Nonlinearity	Linear range	Pressure resistance	Power
AL-240A/100mA	240A	100mA	10Ω	1V	<=30'	<=0.2%	>=1.5 times	>=3KV	<=0.3W
AL-200A/50mA	200A	50mA	20Ω	1V					
AL-150A/50mA	150A	50mA	20Ω	1V					
AL-100A/50mA	100A	50mA	20Ω	1V					
AL-50A/200mA	50A	200mA	5Ω	1V					
AL-50A/25mA	50A	25mA	40Ω	1V					
AL-30A/10mA	30A	10mA	50Ω	0.5V					

Current Transformer (Solid core)



Features:

- 1.Minimum output voltage tolerance;
- 2.Excellent balance characteristics;
- 3.A variety of configuration;
- 4.Close to zero load shift and zero phase shift.

Application:

- 1.Residual current circuit breaker;
- 2.Earth Leakage protection switch;
- 3.Leakage circuit protection Breaker;
- 4.Leakage circuit protection plug (Appliance Leakage Circuit Interrupter -ALCI).

Product Name	Rated current (A)	Variety rate of -35℃~80℃	Variety rate of magnetization	Output voltage
				Vo(mV) , L(mH)
AL 201	30	-10%~10%	-10%~0%	4.0~5.0
AL 202	30	-10%~10%	-10%~0%	5.0~6.0
AL 203	30/50	-10%~10%	-10%~0%	19~25
AL 204	30/50	-10%~10%	-10%~0%	19~26
AL 206	50/60/70/100	-10%~10%	-10%~0%	5.0~6.0
AL 207	60	-10%~10%	-10%~0%	7.5~8.5
AL 208	60	-10%~10%	-10%~0%	10.2~12.5
AL 209	30	-10%~10%	-10%~0%	17~21
AL 210	50	-10%~10%	-10%~0%	8~11
AL 211	60	-10%~10%	-10%~0%	15~25
AL 212	60	-10%~10%	-10%~0%	10.2~12.5
AL 213	50	-10%~10%	-10%~0%	>=180
AL 215	50	-10%~10%	-10%~0%	17~21
AL 216	50	-10%~10%	-10%~0%	17~21
AL 219	30	-10%~10%	-10%~0%	>=180
AL 220	60	-10%~10%	-10%~0%	>=300

Current Transformer (PCB)



Features:

1. Low cost. Low profile for PCB mounting
2. High accuracy, wide linear range, low phase shift error
3. Burn-resistant case and filler

Application:

Electronic energy meter, power transducer, precision power meter and other power and energy monitoring devices Over current protection circuit of motor and other electrical appliances.

Item	Description			
Dimintions(mm) L/W/H	18+/-0.3, 10+/-0.3, 19+/-0.3			
Temperature	Storage :-40℃~85℃, Working :-20℃~70℃			
Rated primary current 50/60Hz	10(20)			
Secondary coil turns ratio	1000:1			
Power frequency withstand voltage	4000Vrms/1mA/1s			
Insulation resistance (500VDC)	100MΩ min			
Secondary coil DC resistance (25℃)	50+/-5Ω			
Primary current (Amp 50 Hz)	1	5	10	20
(Vrms)output	16+/-1%	80+/-1%	160+/-1%	320+/-1%
Case	Flame retar dan and environmentally friendly PBT			
Insulation	Flame retar dant environmentally friendly epoxy resin			
Terminal	Φ 0.8 tinned copper			