

Product Survey 2022

Electronic Components, Modules and Systems



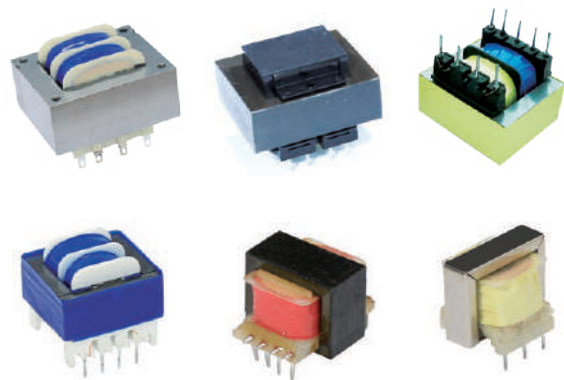
**POWER TRANSFORMERS
CURRENT SENSORS
INDUCTORS/REACTORS
POWER SUPPLY**

NIETZ ELECTRIC CO.,LTD

SINCE
2005

EI (LAMINATED) POWER TRANSFORMER

PCB Transformer (open frame)

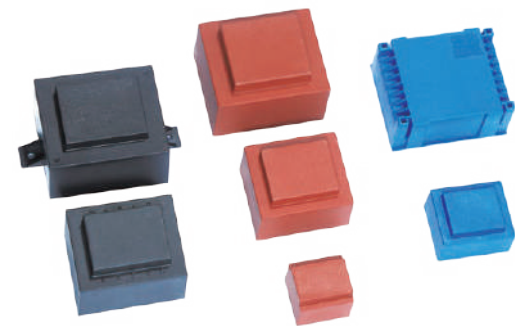


- FEATURES:**
Low standby power consumption type (under 0.9W)...
As low as 0.1W is also possible .
- APPLICATIONS**
50/60Hz power supply
electrical home appliance
medical equipments
communication device
solar energy and inverter
Custom made is acceptable

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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

PCB Transformer (encapsulated)

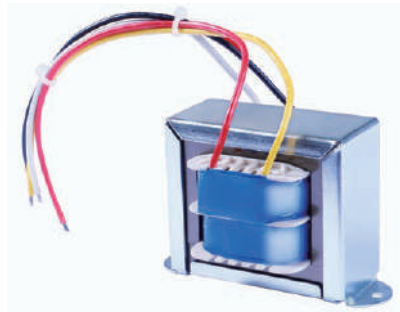


- FEATURES:**
- 0.35VA to 60VA, Vacuum filling
 - Two compartments bobbins
 - Self-extinguishing plastics UL 94 VO
 - Degree of protection IP 00
 - 40 grams weight
 - Resin class B CEI 85 (20 000 h testing to CEI 126)
 - Inherently short-circuits proof
 - Insulation voltage 4 KV (6 KV ALTRANSFO test)
 - 100 % tested production
 - Certification : CCA procedure on request
 - Custom made is acceptable

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

EI (LAMINATED) POWER TRANSFORMER

Saddle Mount and lead wires Transformer



General Specification :

- Power—2.4VA to 800VA
- Dielectric Strength—4000VRMS Hipot
- Primary—Single primary or double primary (50/60Hz)
- Secondary—Center tapped secondaries
- Terminals— Solder lug or quick-connect
- Insulation—ClassB (130℃)
ClassF(155℃)
- Custom made is acceptable

VA (Size)	Wt (kg)	Dimension (L/W/H)mm	ML
6	0.2	60.5/32.0/35.0	51
12	0.32	71.5/35.0/41.5	60.5
30	0.5	82.5/43.0/49.0	71.5
56	0.78	93.5/46.0/57.5	79.5
100	1.25	102.5/57.5/65.0	90

Product Name	Power VA(size)	Secondary RMS Rating
AL-CT-10-6S	6	10VCT@0.6A
AL-CT-10-12S	12	10VCT@1.2A
AL-CT-10-30S	30	10VCT@3.0A
AL-CT-10-56S	56	10VCT@5.0A
AL-CT-10-100S	100	10VCT@10.0A
AL-CT-12-6S	6	12.6VCT@0.5A
AL-CT-12-12S	12	12.6VCT@1.0A
AL-CT-12-30S	30	12.6VCT@2.5A
AL-CT-12-56S	56	12.6VCT@4.0A
AL-CT-12-100S	100	12.6VCT@8.0A
AL-CT-16-6S	6	16VCT@0.40A
AL-CT-16-30S	30	16VCT@2.0A
AL-CT-16-100S	100	16VCT@6.25A
AL-CT-20-6S	6	20VCT@0.3A
AL-CT-20-56S	56	20VCT@2.8A
AL-CT-20-100S	100	20VCT@5.0A
AL-CT-24-6S	6	24VCT@0.25A
AL-CT-28-30S	30	28VCT@1.1A
AL-CT-28-100S	100	28VCT@3.6A
AL-CT-36-6S	6	36VCT@0.17A
AL-CT-36-12S	12	36VCT@0.35A
AL-CT-36-56S	56	36VCT@1.5A
AL-CT-36-100S	100	36VCT@2.8A
AL-CT-48-6S	6	48VCT@0.125A
AL-CT-48-30S	30	48VCT@0.63A
AL-CT-48-100S	100	48VCT@2.0A
AL-CT-56-6S	6	56VCT@0.11A
AL-CT-56-12S	12	56VCT@0.22A
AL-CT-56-56S	56	56VCT@1.0A
AL-CT-56-100S	100	56VCT@1.8A
AL-CT-120-6S	6	120VCT@0.05A
AL-CT-120-12S	12	120VCT@0.1A
AL-CT-120-56S	56	120VCT@0.5A
AL-CT-120-100S	100	120VCT@0.85A

L Mount and lead wires Transformer



General Specification :

- Power—10VA to 800VA
- Dielectric Strength—4000VRMS Hipot
- Primary— Dual primaries (115/230V-50/60Hz)
- Secondary—Series or parallel secondaries
- Terminals— Solder lug or quick-connect
- ClassB (130℃) ClassF(155℃)
- Custom made is acceptable

VA (Size)	Wt (kg)	Dimension (L/W/H)mm	ML
25	0.57	71.50/47.50/58.70	60
43	0.73	79.50/52.50/68.10	71.5
80	1.27	63.50/60.50/76.20	50.8
130	1.86	71.50/73.00/85.80	57.2
175	2.5	80.00/73.00/96.00	64

Product Name	Power VA(size)	Secondary RMS	
		Series	Parallel
AL-IP-10-25	25	10VCT@2.5A	5V@5.0A
AL-IP-10-43	43	10VCT@4.3A	5V@8.6A
AL-IP-10-80	80	10VCT@8.0A	5V@16.0A
AL-IP-10-130	130	10VCT@13.0A	5V@26.0A
AL-IP-10-175	175	10VCT@17.5A	5V@35.0A
AL-IP-12-25	25	12.6VCT@2.0A	6.3V@4.0A
AL-IP-12-43	43	12.6VCT@3.4A	6.3V@6.8A
AL-IP-12-80	80	12.6VCT@6.3A	6.3V@12.6A
AL-IP-12-130	130	12.6VCT@10.3A	6.3V@20.6A
AL-IP-12-175	175	12.6VCT@14.0A	6.3V@28.0A
AL-IP-16-25	25	16VCT@1.6A	8V@3.2A
AL-IP-16-43	43	16VCT@2.7A	8V@5.4A
AL-IP-16-80	80	16VCT@5.0A	8V@10.0A
AL-IP-16-130	130	16VCT@8.1A	8V@16.2A
AL-IP-16-175	175	16VCT@11.0A	8V@22.0A
AL-IP-20-25	25	20VCT@1.25A	10V@2.5A
AL-IP-20-43	43	20VCT@2.2A	10V@4.4A
AL-IP-20-80	80	20VCT@4.0A	10V@8.0A
AL-IP-20-130	130	20VCT@6.5A	10V@13A
AL-IP-20-175	175	20VCT@8.8A	10V@17.6A
AL-IP-24-25	25	24VCT@1.0A	12V@2.0A
AL-IP-24-80	80	24VCT@3.3A	12V@6.6A
AL-IP-28-43	43	28VCT@1.8A	14V@3.0A
AL-IP-28-130	130	28VCT@5.4A	14V@9.2A
AL-IP-28-175	175	28VCT@7.3A	14V@12.5A
AL-IP-36-25	25	36VCT@0.7A	18V@1.4A
AL-IP-36-80	80	36VCT@2.2A	18V@4.4A
AL-IP-36-130	130	36VCT@3.6A	18V@7.2A
AL-IP-36-175	175	36VCT@4.8A	18V@9.6A
AL-IP-230-25	25	230VCT@0.11A	115V@0.22A
AL-IP-230-43	43	230VCT@0.38A	115V@0.38A
AL-IP-230-80	80	230VCT@0.70A	115V@0.70A
AL-IP-230-130	130	230VCT@1.14A	115V@1.14A
AL-IP-230-175	175	230VCT@1.52A	115V@1.52A

EI (LAMINATED) POWER TRANSFORMER

Single Phase Transformer



- FEATURES:**
- The original bobbin design has improved reliability to approved safety standard .
 - Adoption of low loss core materials for miniaturization.
 - Sharp reduction of cost has been realized by standard materials and designs .
 - Insulation grade : Class F (155℃) , Class H (180℃) , Class C (220℃)
 - Custom made is acceptable

Product Name	Input Voltage	Output Voltage	Power	Dimensions (L/W/H) mm
AL 63/23	115/208/230/380/480 Vac	2*115Vac	63VA	84/85/88
AL 63/24	115/208/230/380/480 Vac	2*12Vac	63VA	84/85/88
AL 100/23	115/208/230/380/480 Vac	2*115Vac	100VA	84/85/88
AL 100/24	115/208/230/380/480 Vac	2*12Vac	100VA	84/85/96
AL 160/23	115/208/230/380/480 Vac	2*115Vac	160VA	96/102/104
AL 160/24	115/208/230/380/480 Vac	2*12Vac	160VA	96/102/104
AL 250/23	115/208/230/380/480 Vac	2*115Vac	250VA	96/125/105
AL 250/24	115/208/230/380/480 Vac	2*12Vac	250VA	96/125/104
AL 320/23	115/208/230/380/480 Vac	2*115Vac	320VA	120/92/121
AL 320/24	115/208/230/380/480 Vac	2*12Vac	320VA	120/92/121
AL 400/24	115/208/230/380/480 Vac	2*12Vac	400VA	120/104/121
AL 500/23	115/208/230/380/480 Vac	2*115Vac	500VA	120/124/121
AL 630/23	115/208/230/380/480 Vac	2*115Vac	630VA	150/117/145
AL 800/23	115/208/230/380/480 Vac	2*115Vac	800VA	150/130/143
AL 800/24	115/208/230/380/480 Vac	2*12Vac	800VA	150/130/143
AL 1000/24	115/208/230/380/480 Vac	2*12Vac	1000VA	150/180/185
AL 1600/23	115/208/230/380/480 Vac	2*115Vac	1600VA	192/161/181
AL 2000/23	115/208/230/380/480 Vac	2*115Vac	2000VA	192/183/181
AL 2500/23	115/208/230/380/480 Vac	2*115Vac	2500VA	192/190/181
AL 3200/23	115/208/230/380/480 Vac	2*115Vac	3200VA	231/223/246
AL 4000/24	115/208/230/380/480 Vac	2*12Vac	4000VA	196/280/280
AL 7000/24	115/208/230/380/480 Vac	2*12Vac	7000VA	250/300/350
AL 8800/23	115/208/230/380/480 Vac	2*115Vac	8800VA	250/335/350

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

Three Phase Transformer

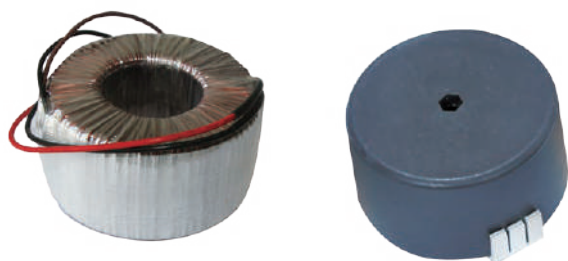


- FEATURES:**
- Big high transformer (800KVA/MAX)
 - Reduce temperature rise due to the special wind-path design
 - Mainly apply to solar inverter, and wind invert
 - Could be Foil winding
 - Design by Europe
 - Efficiency≥98.5%
 - Insulation grade : Class F (155℃) , Class H (180℃) ,Class C (220℃)
 - Custom made is acceptable

Product Name	Input Voltage	Output Voltage	Power	Dimensions (L/W/H)mm
AL 2-22/23-4	3*220/230 Vac	3*400 Vac	2.000VA	220/125/175
AL 2-48/50-4	3*480/500 Vac	3*400 Vac	2.000VA	155/110/155
AL 2-58/60-4	3*575/6200 Vac	3*400 Vac	2.000VA	220/105/175
AL 3.5-22/23-4	3*220/230 Vac	3*400 Vac	3.500VA	267/149/220
AL 3.5-38/42-4	3*380/415 Vac	3*400 Vac	3.500VA	155/95/155
AL 3.5-44/46-4	3*440/460Vac	3*400 Vac	3.500VA	155/110/155
AL 3.5-58/60-4	3*575/600Vac	3*400 Vac	3.500VA	267/125/215
AL 10-20/21-4	3*200/208Vac	3*400 Vac	10.000VA	352/190/280
AL 10-38/42-4	3*380/415Vac	3*400 Vac	10.000VA	220/105/175
AL 10-48/50-4	3*480/500Vac	3*400 Vac	10.000VA	267/150/220
AL 10-69-4	3*600/690Vac	3*400 Vac	10.000VA	350/162/280
AL 15-20/21-4	3*200/208Vac	3*400 Vac	15.000VA	412/180/380
AL 15-22/23-4	3*220/230Vac	3*400 Vac	15.000VA	410/195/345
AL 15-38/42-4	3*380/415Vac	3*400 Vac	15.000VA	220/125/175
AL 15-44/46-4	3*440/460Vac	3*400 Vac	15.000VA	267/149/215
AL 15-58/60-4	3*575/600Vac	3*400 Vac	15.000VA	350/177/280
AL 25-20/21-4	3*200/208Vac	3*400 Vac	25.000VA	480/220/440
AL 25-44/46-4	3*440/460Vac	3*400 Vac	25.000VA	315/185/255
AL 25-48/50-4	3*480/500Vac	3*400 Vac	25.000VA	352/190/280
AL 25-58/60-4	3*575/600Vac	3*400 Vac	25.000VA	480/182/395
AL 45-20/21-4	3*200/208Vac	3*400 Vac	45.000VA	550/290/510
AL 45-44/46-4	3*440/460Vac	3*400 Vac	45.000VA	410/155/380
AL 70-44/46-4	3*440/460Vac	3*400 Vac	70.000VA	480/440/195
AL 70-48/50-4	3*480/500Vac	3*400 Vac	70.000VA	550/240/485

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

TOROIDAL TRANSFORMER



FEATURES:

- High efficiency
 - Small size
 - Low mechanical hum
 - Low magnetic noise
 - Low off-load losses
 - Easy to mount
 - Max Power :6.0KW
 - Potted installation
- COULD BE CUSTOM MADE

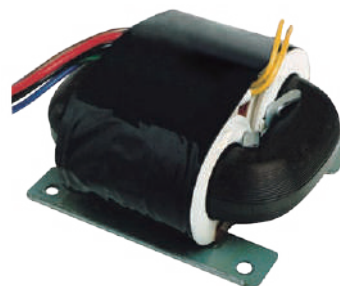
Applications:

- High end audio products
- Medical equipments
- UPS system
- Industrial Machines

Product Name	Input voltage	Output voltage	Power	Diameter (mm)	Hight (mm)
AL-05667-12	115/230Vac	12Vac	10VA	40	20
AL-05668-12	115/230Vac	12vac	20VA	57	27
AL-05669-24	115/230Vac	24vac	30VA	60	32
AL-05670-24	115/230Vac	24Vac	36VA	68	35
AL-05671-30	115/230Vac	30Vac	40VA	71	39
AL-05672-30	115/230Vac	30Vac	50VA	72	40
AL-05673-36	115/230Vac	36Vac	60VA	80	38
AL-05674-36	115/230Vac	36Vac	70VA	81	41
AL-05675-48	115/230Vac	48Vac	100VA	99	35
AL-05676-48	115/230Vac	48Vac	120VA	91	50
AL-05677-24	115/230Vac	24Vac	150VA	114	36
AL-05678-36	115/230Vac	36Vac	200VA	110	55
AL-05679-48	115/230Vac	48Vac	250VA	110	61
AL-05680-36	115/230Vac	36Vac	300VA	113	67
AL-05681-48	115/230Vac	48Vac	400VA	147	54
AL-05682-60	115/230Vac	60Vac	500VA	141	67
AL-05683-60	115/230Vac	60Vac	600VA	152	67
AL-05684-80	115/230Vac	80Vac	800VA	172	68
AL-05685-100	115/230Vac	100Vac	1000VA	187	78
AL-05686-230	115/230Vac	230Vac	1500VA	217	74
AL-05687-230	115/230Vac	230Vac	2000VA	240	79

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

R CORE TRANSFORMER



FEATURES:

- High efficiency, low temperature rise, low loss
- Low magnetic leakage, small excitation current
- High balance, no noise
- Small and light, easy to install

APPLICATIONS:

High end audio , instruments, power automation, medical equipment and railway transportation equipment, etc.

Product Name	Power (VA)	Dimensions (mm)			G	KG
		L	W	H		
AL-R5	3-6	59	50	27	4	0.2
AL-R8	6-10	69	60	35	4	0.3
AL-R8P	6-10	69	60	33	3.5	0.3
AL-R10	8-15	75	63	37	4	0.4
AL-R20	15-28	80	70	39	4	0.5
AL-R26	25-35	83	72	42	4	0.6
AL-R30	30-45	95	76	42	5	0.7
AL-R35	45-60	97	79	46	5	0.9
AL-R40	35-55	97	81	44	5	0.9
AL-R50	50-65	98	88	48	5	1
AL-R65	65-90	105	90	51	5	1.2
AL-R80	70-100	122	91	52	5	1.4
AL-R100	90-130	124	103	55	5	1.7
AL-R160	150-200	136	112	63	5	2.6
AL-R260	200-300	149	119	66	6	3.1
AL-R320	300-380	159	130	70	8	3.8
AL-R600	380-620	177	143	85	8	6.5
AL-R700	380-750	178	143	85	8	6.8
AL-R800	950	194	171	95	16	8.2
AL-R1000	650-1200	214	172	100	10	10.5
AL-R1500	1200-1500	228	190	95	10	13

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

LINE INDUCTORS/HARMONIC REACTORS



FEACTURES:

- Low loss
- Use as line reactor or PFC reactor
- Power harmonic damping
- Starting current limitation
- Bridging voltage dips
- Peak current limitation
- Increases the service life of equipment
- Very good corrosion protection and low noise due to vacuum impregnation

Could be custom made

Product Name	Power (Kvar)	Inductance (MH)	Iems (ampere)(A)	Magnetic energy	Losses (W)	Wight (Kg)	Dimensions(mm)		
							L	W	H
AL-5.7-6.3	6.3	4.86	11.9	344.11	55	9	181	95	185
AL-5.7-12.5	12.5	2.45	23	648.03	89	12	181	115	185
AL-5.7-20	20	1.53	36.9	1041.63	110	16	275	115	230
AL-5.7-25	25	1.22	46.1	1296.38	130	19	275	125	230
AL-5.7-40	40	0.765	73.7	2077.62	210	25	310	125	280
AL-5.7-50	50	0.612	92.1	2595.62	280	32	310	145	280
AL-5.7-75	75	0.408	138.2	3896.24	310	38	370	130	330
AL-5.7-100	100	0.306	183.8	5168.71	390	47	370	145	330
AL-7-6.3	6.3	6.08	10.6	341.57	65	8	181	95	185
AL-7-12.5	12.5	3.07	20.5	645.08	87	9.5	181	115	185
AL-7-20	20	1.92	32.7	1026.52	100	14	275	115	230
AL-7-25	25	1.53	41	1285.97	120	18	275	125	230
AL-7-40	40	0.958	65.6	2061.31	210	23	310	125	280
AL-7-50	50	0.766	81.9	25690.01	210	29	310	145	280
AL-7-75	75	0.511	122.9	3859.18	270	35	370	130	330
AL-7-100	100	0.383	164.2	5163.15	370	46	370	145	330
AL-14-6.3	6.3	13.17	10.1	671.74	75	9.5	181	95	185
AL-14-12.5	12.5	6.63	19.2	1222.04	100	15	181	125	185
AL-14-20	20	4.14	30.8	1963.68	150	19	275	125	230
AL-14-40	40	2.07	61.6	3927.37	230	32	310	130	280
AL-14-75	75	1.1	115.4	7324.44	360	51	370	150	330
AL-14-100	100	0.829	154	9830.28	450	62	370	170	330

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

HIGH FREQUENCY TRANSFORMER

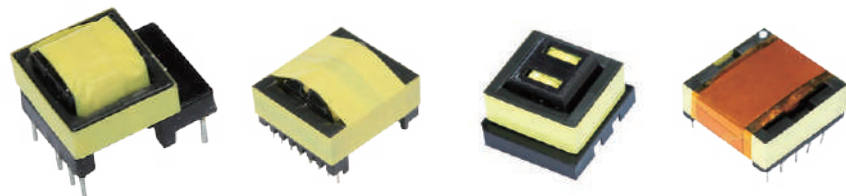


Ferrite core transformer, Drive transformer, Lighting transformer, Converter transformer, Flyback transformer, Push-pull transformer, SMPS transformer, TinySwitch transformers, ToperSwitch transformers(EE, EFD,EPC,ER, ETD, PQ, POT, RM types)

Series	Product Name	Output power maximum	Windings					Frequency
				Pins	Voltage	Current maximum	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	8Acdc	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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

HIGH FREQUENCY TRANSFORMER



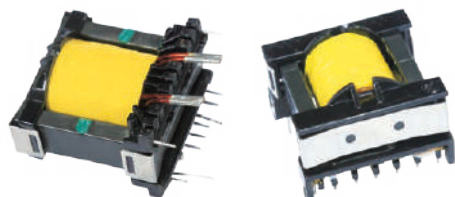
EE,EF,ERL Series,EE8.3,EE10,EE13,EE16,EE20,EE25,EE55,EE65,EE75,EF20,EF25,EFD25,ERL28,ERL35, ERL39

General Specification:

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

Apply:

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. Dielectric Strength: 3750VRMS Hipot
3. Insulationsystems: CLASS B(130℃)
4. FlammabilityRating: UL94-VO

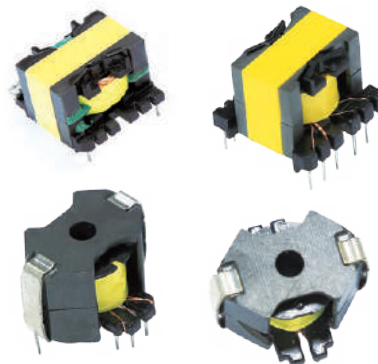
Product Name	Reference Power	Working Frequency	AL (nH/N2)	Power Loss (W/PRS,Max)
AL-ETD19/27	35W	1KHZ~500KHZ	1720	1.35
AL-ETD24/29	50W	1KHZ~500KHZ	2000	1.88
AL-ETD29/32	75W	1KHZ~500KHZ	2300	3.00
AL-ETD34/35	110W	1KHZ~500KHZ	2800	4.23
AL-ETD39/40	165W	1KHZ~500KHZ	3000	6.34
AL-ETD44/45	260W	1KHZ~500KHZ	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

Apply:

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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

HIGH FREQUENCY TRANSFORMER



PQ Series /RM Series

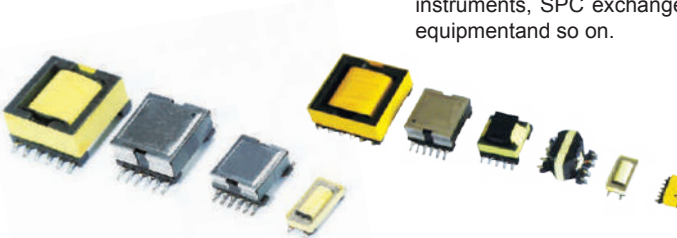
General Specification:

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

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-PQ2622.5	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

Apply

Widely used for mobile chargers , PCpower, electronic instruments, SPC exchange, color television, lighting equipment and so on.



SMD Transformer

General Specification:

1. Dielectric Strength: 1250/2500VRMS Hipot
2. Insulationsystems: CLASS B(130℃)
3. FlammabilityRating: UL94-VO
4. Small Size
5. Surface-mountable, Tape Reel, 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

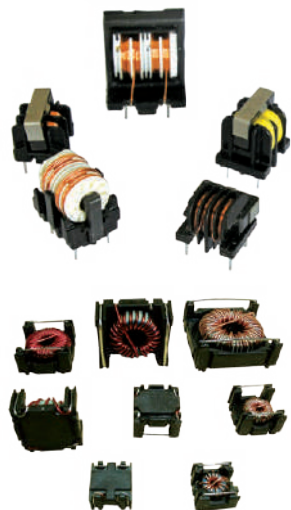
Apply:

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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

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

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-U11106	51min	0.3	4	530	125
AL-U11100	33min	0.35	3	400	170
AL-U11101	18min	0.45	1.7	240	220
AL-U11102	10min	0.6	1	140	320
AL-U11103	4.7min	0.9	0.43	65	480
AL-U11104	2.2min	1.3	0.23	32	740
AL-U11105	1min	1.9	0.1	14	1000

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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

INDUCTORS/CHOKES/COILS

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 impedance for 1k-100MHz component .



Product Name	Inductance at 0 DC	Saturation Current (DC)	Dimension(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



APPLICATION:

Widely used for the color television and stereo equipment, uninterrupted power supply, electric appliances, filter, electronic ballast, energy-saving and 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	Approx. 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

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

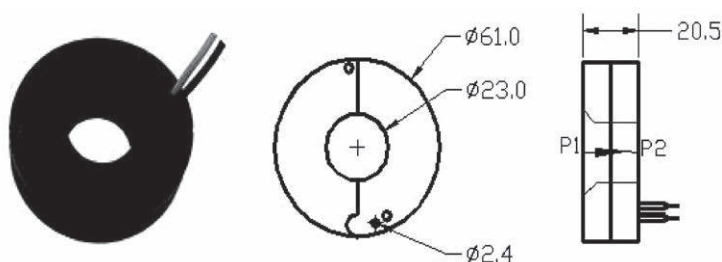
Current Transformer (Split core)



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



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					

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

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			
Dimensions(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 retardant and environmentally friendly PBT			
Insulation	Flame retardant environmentally friendly epoxy resin			
Terminal	Φ 0.8 tinned copper			

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

ROGOWSKI COILS



APPLICATIONS:

1. Very high current monitoring
2. DC ripple measurement
3. Harmonics and transients monitoring
4. Power monitoring & control systems
5. Applicable in electronic Watt-hour meter
6. Power quality monitoring
7. Electric furnace
8. Harmonic management
9. Relay Protection

FEATURES:

1. Capable of accommodating a range of primary conductor sizes.
2. Characterized by high sensitivity, accuracy, linearity, minimum phase shift.
3. Suitable for harsh operating environments (temperature, humidity, EMI).
4. Current Range: 10A to 100kA
5. Accuracy: < 1%
6. Phase Shift: < 1 degrees at 50/60Hz (< 0.5 degrees typical) /li>
7. Linearity: $\pm 1\%$ from 10% to 100% of rated primary current
8. Influence of External Field: $\pm 1.5\%$ maximum
9. Coil Working voltage: 1000VRMS or 1000VDC
10. Coil Dielectric Surge Withstand: 5kVRMS for 1 minute
11. Operating temperature: -20°C to +60°C
12. Leads: Shielded cable, or as per customer need

Rated current (rms)	10A-100KA
Output	125mV~333mV/1000A (without integrator)
	0-5V AC(with integrator)
Power supply	+9V/+12V
Coil length	200mm-2000mm
Window size	60mm-630mm
Tube	UL material
Wire lead	Shielded cable 1.0M
Isolation voltage	3500V
Operating temperature	-25°C ~+70°C
Frequency	50Hz-60Hz
Accuracy	$\pm 1\%$

Above dimension are for reference. NIETZ could design and produce according to customer requirements.

POWER SUPPLY



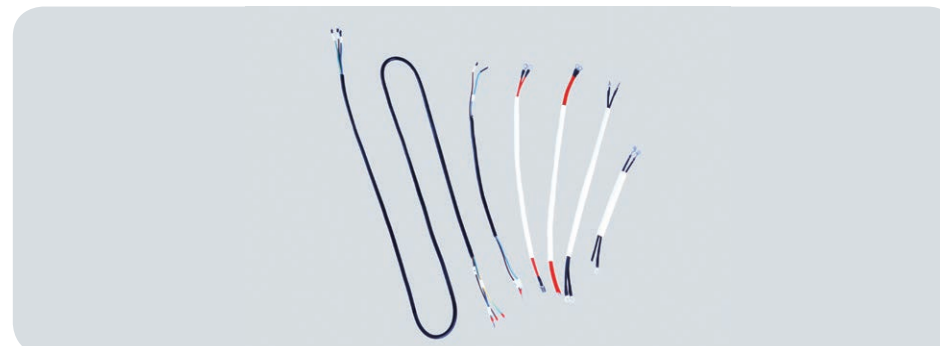
BENEFITS:

1. Stabilized and adjustable output voltage
2. Linear Power supply and Switching Power supply
3. AC/AC or AC/DC types

Best-in-class power quality for control panels in any application. Low profile dimensions allow usage mostly everywhere .

Product Name	Input	Output	Output	Dimension(mm)
Order No.	Voltage	Voltage	Current	L/W/H
AL5-5.5	100-240Vac	5Vdc	5.5A	72/59/89
AL12-2	100-240Vac	12Vdc	2.00A	54/59/89
AL12-4	100-240Vac	12Vdc	4.00A	72/59/89
AL12-6.5	100-240Vac	12Vdc	6.50A	90/59/89
AL18-1.1	100-240Vac	18Vdc	1.10A	54/59/89
AL18-2.5	100-240Vac	18Vdc	2.50A	72/59/89
AL24-1.3	100-240Vac	24Vdc	1.30A	54/59/89
AL24-2.5	100-240Vac	24Vdc	2.50A	72/59/89
AL24-4	100-240Vac	24Vdc	4.00A	90/59/89

CABLE ASSEMBLY, ACCEPT CUSTOM MADE



Above dimension are for reference. NIETZ could design and produce according to customer requirements.