

WORLDTRANS® POWER TRANSFORMERS



For PC Board, Solid-State Power, Control,
and Instrumentation Applications.



File #LR69222 File 810/89
File #LR69223 811/89
VDE 0551. 0806

TUV File 810/89
811/89
IEC 380 EN60950

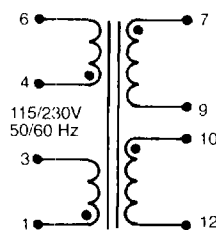
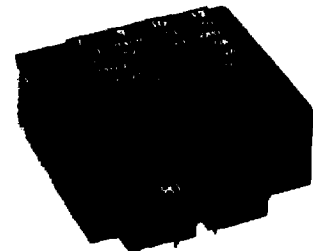
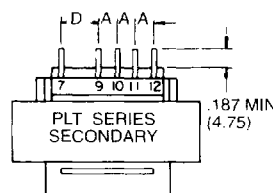
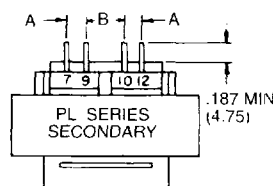
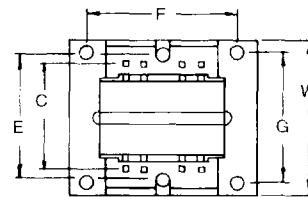
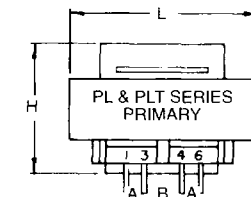
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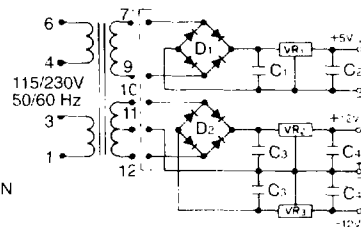
- 115V/230V 50/60 Hz primary
- Meets US and International Safety Standards-UL, VDE, IEC, CSA
- 4,000 Volt RMS hi-pot Test-Dual Non-concentric Bobbins and Insulating Shroud Provide High Isolation and Reduced Capacitance
- 130°C Insulation System- Insulating Materials Meet UL 94V-0 Flammability Requirements
- Cost Effective Design

PL SERIES-FOR CONTROL AND POWER SUPPLY APPLICATIONS

PL Series	Primary Voltage (V)	Primary Current (A)	Primary Resistance (Ω)	Primary Inductance (mH)	Primary Capacitance (pF)
PL2.5-20	2.5	5.0	0.50	10.0 CT	0.25
PL5.0-10	5.0	5.0	1.00	10.0 CT	0.50
PL10-10	10.0	5.0	2.00	10.0 CT	1.00
PL20-10	20.0	5.0	4.00	10.0 CT	2.00
PL30-10	30.0	5.0	6.00	10.0 CT	3.00
PL56-10	56.0	5.0	11.20	10.0 CT	5.60
PL2.5-12	2.5	6.3	0.40	12.6 CT	0.20
PL5.0-12	5.0	6.3	0.80	12.6 CT	0.40
PL10-12	10.0	6.3	1.60	12.6 CT	0.80
PL20-12	20.0	6.3	3.20	12.6 CT	1.60
PL30-12	30.0	6.3	4.80	12.6 CT	2.40
PL56-12	56.0	6.3	8.80	12.6 CT	4.40
PL2.5-16	2.5	8.0	0.30	16.0 CT	0.15
PL5.0-16	5.0	8.0	0.62	16.0 CT	0.31
PL10-16	10.0	8.0	1.25	16.0 CT	0.62
PL20-16	20.0	8.0	2.50	16.0 CT	1.25
PL30-16	30.0	8.0	3.80	16.0 CT	1.90
PL56-16	56.0	8.0	7.00	16.0 CT	3.50
PL2.5-20	2.5	10.0	0.24	20.0 CT	0.12
PL5.0-20	5.0	10.0	0.50	20.0 CT	0.25
PL10-20	10.0	10.0	1.00	20.0 CT	0.50
PL20-20	20.0	10.0	2.00	20.0 CT	1.00
PL30-20	30.0	10.0	3.00	20.0 CT	1.50
PL56-20	56.0	10.0	5.60	20.0 CT	2.80
PL2.5-24	2.5	12.0	0.20	24.0 CT	0.10
PL5.0-24	5.0	12.0	0.42	24.0 CT	0.21
PL10-24	10.0	12.0	0.84	24.0 CT	0.42
PL20-24	20.0	12.0	1.66	24.0 CT	0.83
PL30-24	30.0	12.0	2.50	24.0 CT	1.25
PL56-24	56.0	12.0	4.66	24.0 CT	2.33
PL2.5-28	2.5	14.0	0.18	28.0 CT	0.09
PL5.0-28	5.0	14.0	0.36	28.0 CT	0.18
PL10-28	10.0	14.0	0.72	28.0 CT	0.36
PL20-28	20.0	14.0	1.44	28.0 CT	0.72
PL30-28	30.0	14.0	2.12	28.0 CT	1.06
PL56-28	56.0	14.0	4.00	28.0 CT	2.00
PL2.5-36	2.5	18.0	0.14	36.0 CT	0.07
PL5.0-36	5.0	18.0	0.28	36.0 CT	0.14
PL10-36	10.0	18.0	0.56	36.0 CT	0.28
PL20-36	20.0	18.0	1.12	36.0 CT	0.56
PL30-36	30.0	18.0	1.64	36.0 CT	0.82
PL56-36	56.0	18.0	3.12	36.0 CT	1.56



PL SERIES



PLT SERIES-TYPICAL SCHEMATIC*

DIMENSIONS INCHES (MM)

PL Series	Primary Voltage (V)	Primary Current (A)	Primary Resistance (Ω)	Primary Inductance (mH)	Primary Capacitance (pF)	Primary Length (in)	Primary Width (in)	Primary Height (in)	Primary Area (sq in)	Primary Volume (cu in)	Primary Weight (lb)
2.5	1.625	1.313	1.125	.200	.250	1.000	—	1.063	—	—	.25
5.0	1.625	1.313	1.375	.200	.400	1.000	—	1.063	—	—	.37
10.0	1.875	1.563	1.375	.200	.400	1.140	—	1.250	—	—	.53
20.0	2.250	1.875	1.625	.400	.400	1.460	40	1.500	—	—	.90
30.0	2.625	2.188	1.563	.550	.275	1.680	.55	2.19	1.75	—	1.15
56.0	3.000	25.00	1.845	.600	.300	1.900	.60	2.50	2.00	—	1.70

* For PLT series secondary only, dimension A is 1/2 of value shown.

* Ratings based on 120V nominal input.

TRIPLE OUTPUT TRANSFORMERS FOR REGULATED & UNREGULATED POWER SUPPLIES

PLT20-30	20.0	11.11V	33.0 CT	5.0	1.25	±12	150 20V DC	7,500 μF 50V DC	1,500 μF	LM-323K-5	LM-340K-12	LM-320K-12	3N253	3N247
PLT30-32	30.0	11.77V	34.0 CT	5.0	1.75	±12	210 20V DC	10,000 μF 50V DC	1 500 μF	LM-323K-5	LM-340K-12	LM-320K-12	3N253	3N247
PLT56-32	56.0	11.60V	33.5 CT	5.0	2.8	±12	350 20V DC	15,000 μF 50V DC	2,000 μF	LM-323K-5	LM-340K-12	LM-320K-12	MDA-400	3N247

C₂ and C₃ 10,000 μF @ 20V. All VR's are National Semiconductor P/N's. All diodes are Motorola P/N's.

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