

Low Power Transformers Dual Primary - Dual secondary 115/230 Volts

PL-22, PL-23, PL-24



PL-42, PL-43, PL-44

FEATURES

- PC pin mounting.
- Provides isolation from power line.
- Dual Primary for operation at 115V or 230V, 50/60Hz.
- Dual Secondary for **series connection** obtains twice winding voltage with center tap or for **parallel connection** obtains twice winding current rating.
- Modification to these standard items are available as specialty products.
- Laminated construction for low-cost industrial applications, including power supplies, controls and instrumentation.
- Mounting brackets and bobbin standoff are available.
- **PL-22, PL-23, PL-24:** Concentric windings for increased coupling, decreased leakage reactance and improved regulation.
- **PL-42, PL-43, PL-44:** Split-section winding for increased dielectric strength between primary and secondary windings plus reduced interwinding capacitance.

ELECTRICAL SPECIFICATIONS

Input Voltage: 115V 60Hz or 230V 50-60Hz.

Output Power Rating:

PL-22, PL-42 = 1.5VA.

PL-23, PL-43 = 4.5VA.

PL-24, PL-44 = 10.0VA.

Dielectric Strength: Between primary windings and secondary windings and core:

PL-22, PL-23, PL-24 = 1500V.

PL-42, PL-43, PL-44 = 2500V.

Between secondary windings to core: All units = 1000V.

From primary to primary windings: All units = 500V.

From secondary to secondary windings: All units = 500V.

MECHANICAL SPECIFICATIONS

Temperature Class:

PL-22, PL-23, PL-24: Insulation Class A, 105°C.

PL-42, PL-43, PL-44: Insulation Class B, 130°C;

A UL approved Class B Insulation System can be furnished on request.

Terminals: Brass, solder coated.

Weight: (reference)

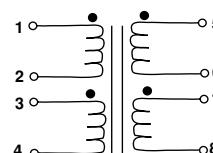
PL-22, PL-42 = 100 grams.

PL-23, PL-43 = 160 grams.

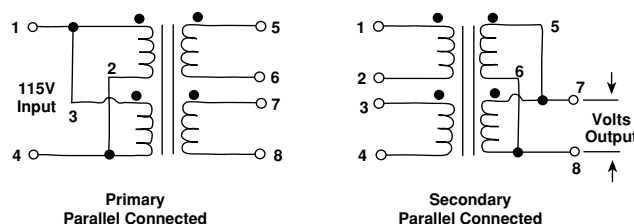
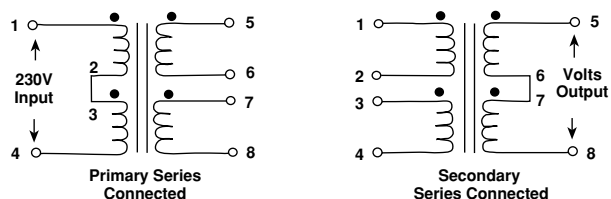
PL-24, PL-44 = 240 grams.

SCHEMATICS

Basic Style



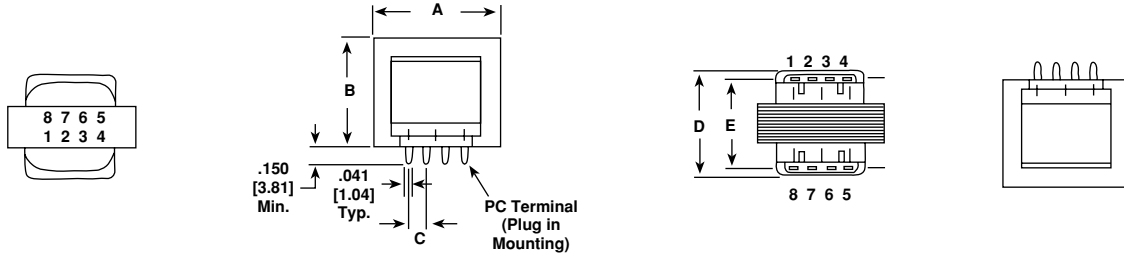
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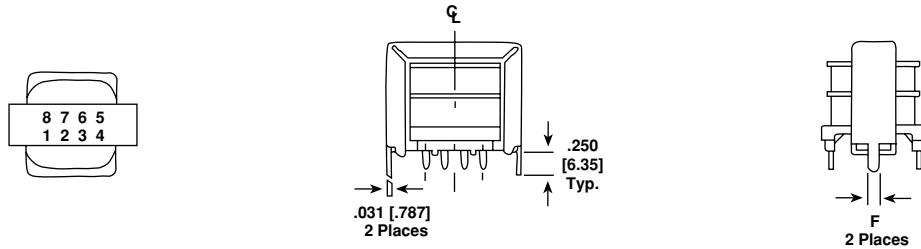
OUTPUT VOLTAGE TABLE					
MODEL		OUTPUT VOLTAGE		OUTPUT CURRENT (mA)	
CONCENTRIC WINDINGS	SPLIT-SECTION WINDINGS	SERIES	PARALLEL	SERIES	PARALLEL
PL-22-01 PL-23-01 PL-24-01	PL-42-01 PL-43-01 PL-44-01	8 VCT	4V	188 562 940	376 1124 1880
PL-22-02 PL-23-02 PL-24-02	PL-42-02 PL-43-02 PL-44-02	10 VCT	5V	120 440 1000	240 880 2000
PL-22-03 PL-23-03 PL-24-03	PL-42-03 PL-43-03 PL-44-03	12.6 VCT	6.3V	100 350 800	200 700 1600
PL-22-04 PL-23-04 PL-24-04	PL-42-04 PL-43-04 PL-44-04	15 VCT	7.5V	100 300 500	200 600 1000
PL-22-05 PL-23-05 PL-24-05	PL-42-05 PL-43-05 PL-44-05	16 VCT	8V	75 260 640	150 520 1280
PL-22-06 PL-23-06 PL-24-06	PL-42-06 PL-43-06 PL-44-06	20 VCT	10V	60 220 500	120 440 1000
PL-22-07 PL-23-07 PL-24-07	PL-42-07 PL-43-07 PL-44-07	24 VCT	12V	50 180 450	100 360 900
PL-22-08 PL-23-08 PL-24-08	PL-42-08 PL-43-08 PL-44-08	30 VCT	15V	50 150 250	100 300 500
PL-22-09 PL-23-09 PL-24-09	PL-42-09 PL-43-09 PL-44-09	34 VCT	17V	35 125 300	70 250 600
PL-22-10 PL-23-10 PL-24-10	PL-42-10 PL-43-10 PL-44-10	40 VCT	20V	30 110 250	60 220 500
PL-22-11 PL-23-11 PL-24-11	PL-42-11 PL-43-11 PL-44-11	54 VCT	27V	28 84 140	56 168 280
PL-22-12 PL-23-12 PL-24-12	PL-42-12 PL-43-12 PL-44-12	56 VCT	28V	20 80 180	40 160 360
PL-22-13 PL-23-13 PL-24-13	PL-42-13 PL-43-13 PL-44-13	76 VCT	38V	20 60 100	40 120 200
PL-22-14 PL-23-14 PL-24-14	PL-42-14 PL-43-14 PL-44-14	88 VCT	44V	15 50 120	30 100 240
PL-22-15 PL-23-15 PL-24-15	PL-42-15 PL-43-15 PL-44-15	120 VCT	60V	10 35 85	20 70 170
PL-22-16 PL-23-16 PL-24-16	PL-42-16 PL-43-16 PL-44-16	180 VCT	90V	6 24 55	12 48 110
PL-22-17 PL-23-17 PL-24-17	PL-42-17 PL-43-17 PL-44-17	230 VCT	115V	5 20 40	10 40 80

DIMENSIONAL CONFIGURATIONS (Reference) [Numbers in brackets indicate millimeters]

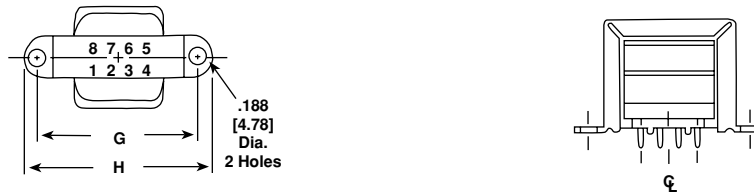
Basic Style



“A” Type of Mounting Frame



“B” Type of Mounting Frame



MODEL	A	B	C	D	E	F	G	H
PL-22 PL-42	1.43 [36.32]	1.20 [30.48]	0.200 [5.08]	1.19 [30.23]	1.0 [25.40]	0.125 [3.18]	1.75 [44.45]	2.12 [53.85]
PL-23 PL-43	1.68 [42.67]	1.38 [35.05]	0.250 [6.35]	1.30 [33.02]	1.10 [27.94]	0.125 [3.18]	2.0 [50.80]	2.44 [61.98]
PL-24 PL-44	1.93 [49.02]	1.64 [41.66]	0.250 [6.35]	1.48 [37.59]	1.30 [33.02]	0.188 [4.78]	2.38 [60.45]	2.88 [73.15]

PART MARKING

— Vishay Dale
— Model
— Date code

ORDERING INFORMATION

PL-22 **01** **A** **B**
 MODEL OUTPUT VOLTAGE MOUNTING FRAME FOR BOBBIN STANDOFF
 AND CURRENT (If not required, leave blank.) (If not required, leave blank.)
 .063 [1.60mm]
 Bobbin Standoff

Special design not listed, available on request.

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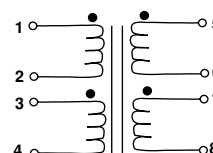
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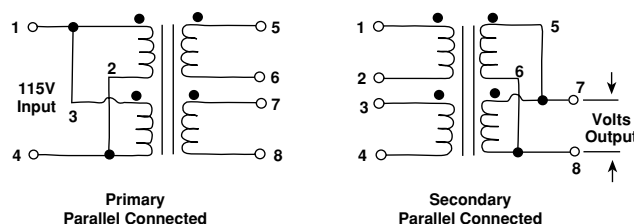
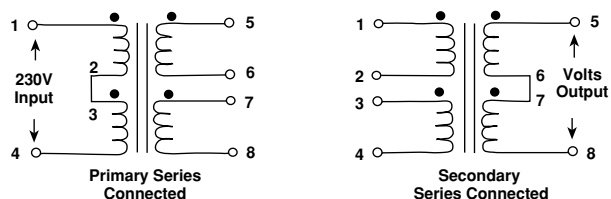
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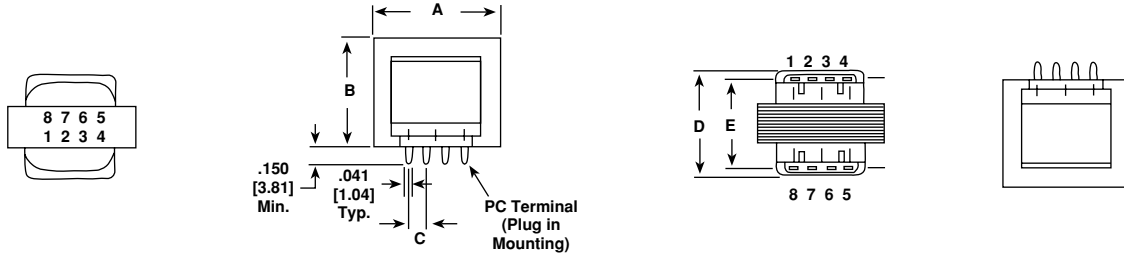
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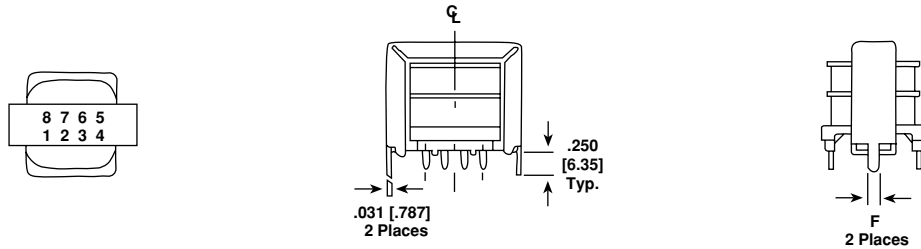
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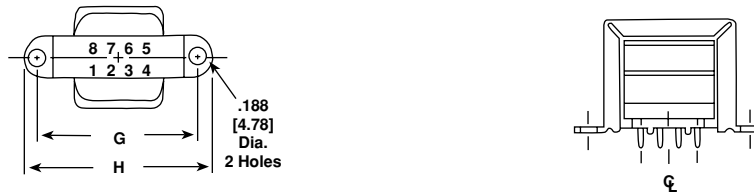
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