

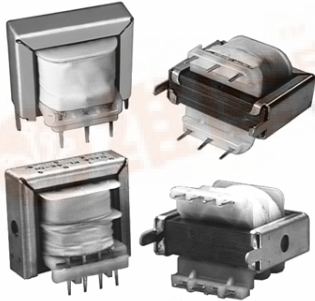


PL-22, -23, -24, -42, -43, -44

Vishay Dale

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.

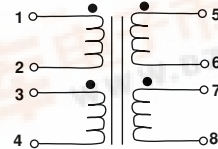
Terminals: Brass, solder coated.

Weight: (reference)

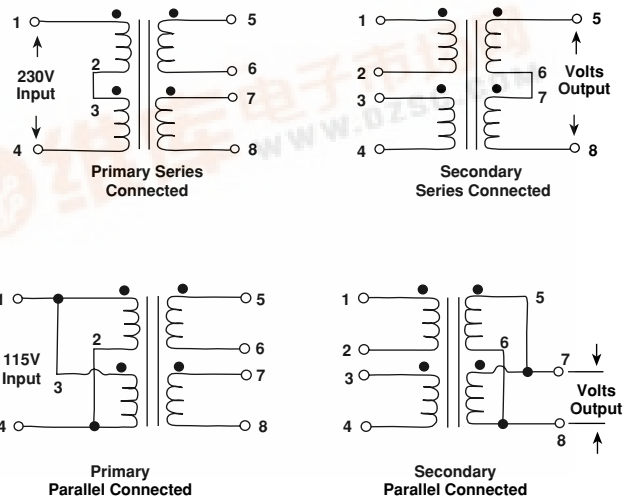
- PL-22, PL-42 = 100 grams.
- PL-23, PL-43 = 160 grams.
- PL-24, PL-44 = 240 grams.

SCHEMATICS

Basic Style



Options



PL-22, -23, -24, -42, -43, -44



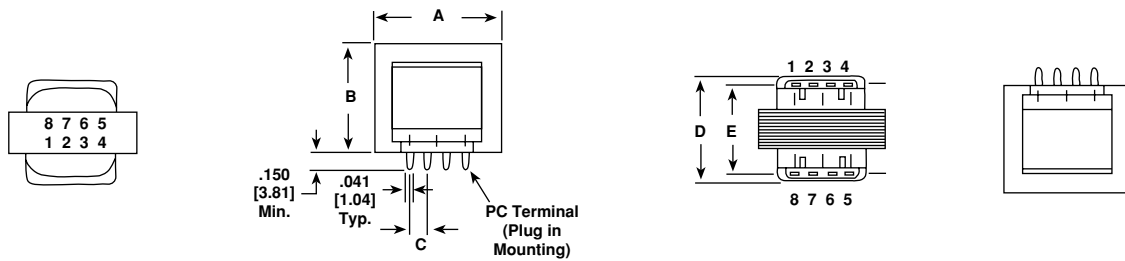
Vishay Dale

| 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 |

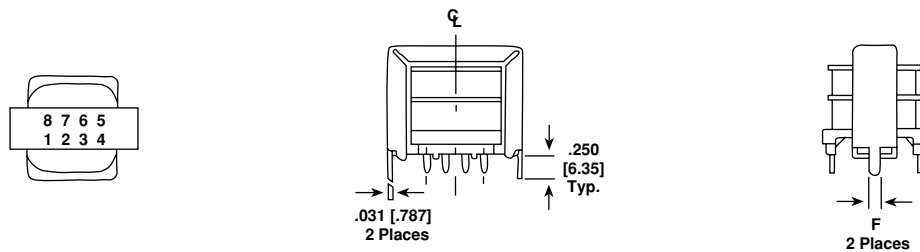


DIMENSIONAL CONFIGURATIONS (Reference) [Numbers in brackets indicate millimeters]

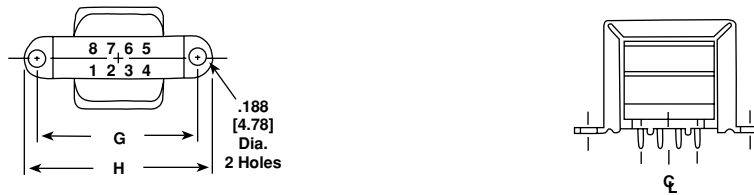
Basic Style



“A” Type of Mounting Frame



“B” Type of Mounting Frame

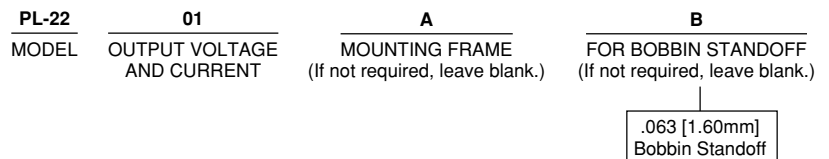


| MODEL | A | B | C | D | E | F | G | H |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| PL-22 PL-42 | 1.43 [36.32] | 1.20 [30.48] | 0.200 [5.08] | 1.19 [30.23] | 1.0 [25.40] | 0.125 [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

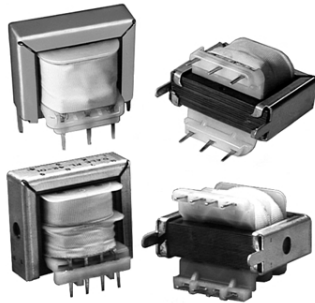


Special design not listed, available on request.



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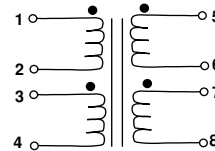
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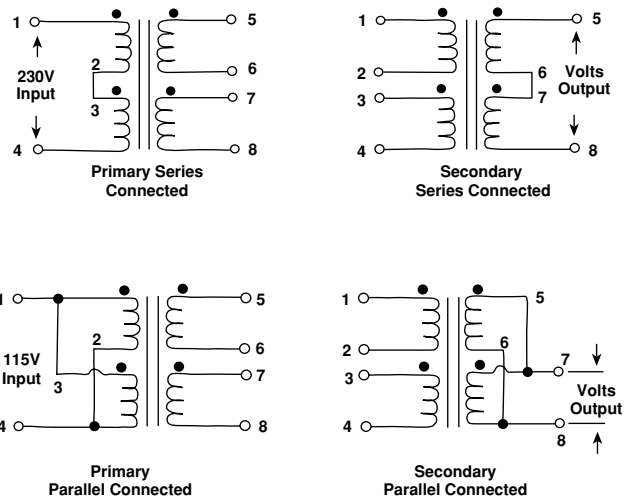
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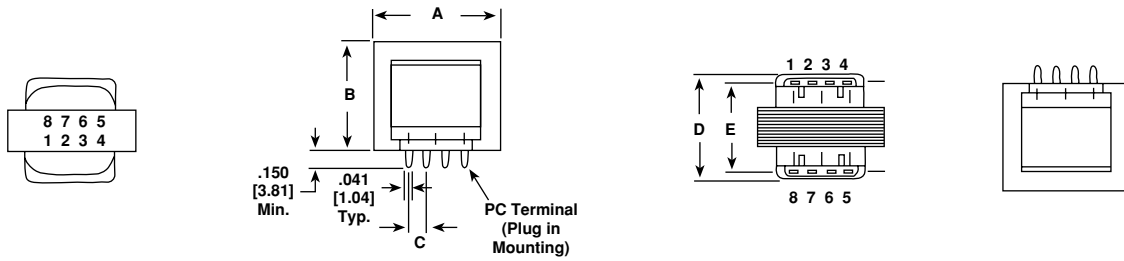
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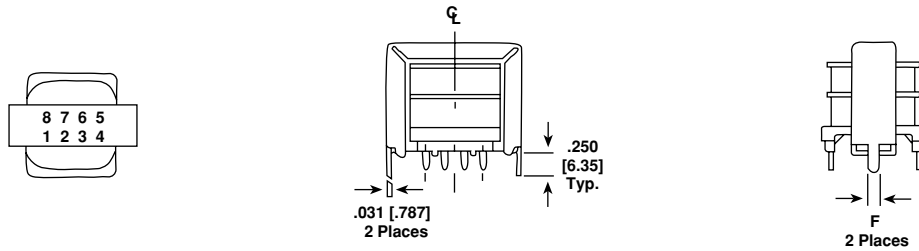


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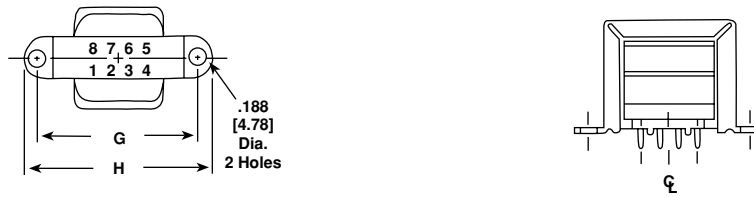
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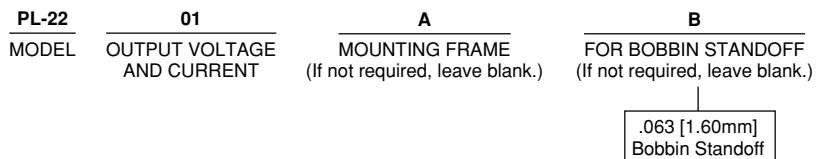


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