# SHROUDED SPLIT BOBBIN HIGH ISOLATION POWER TRANSFORMERS

**Parts are UL & CSA Recognized Under UL File E244637**

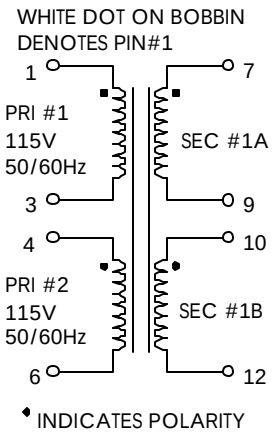
- Ê 115/230V, 50/60Hz Dual Primaries
- Ë Low Capacitive Coupling Minimizes Line Noise
- Ì Dual Secondaries May Be Series -OR- Parallel Connected
- Í PVD-SERIES 6-SIZES: 2.5 TO 56VA
- Î 4000Vrms Isolation (Hi-Pot)
- Ï Shrouded Split Bobbin Construction

## ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -25°C TO +80°C

| P/N DUAL 115/230V | SIZE (VA) | SECONDARY RMS RATINGS SERIES | PARALLEL |
|---|---|---|---|
| PVD-102 | 2.5 | 10V C.T. @ .25A | 5V @ .50A |
| PVD-105 | 5 | 10V C.T. @ .50A | 5V @ 1.00A |
| PVD-1010 | 10 | 10V C.T. @ 1.00A | 5V @ 2.00A |
| PVD-1020 | 20 | 10V C.T. @ 2.00A | 5V @ 4.00A |
| PVD-1030 | 30 | 10V C.T. @ 3.00A | 5V @ 6.00A |
| PVD-1056 | 56 | 10V C.T. @ 5.60A | 5V @ 11.20A |
| | | | |
| PVD-122 | 2.5 | 12.6V C.T. @ .20A | 6.3V @ .40A |
| PVD-125 | 5 | 12.6V C.T. @ .40A | 6.3V @ .80A |
| PVD-1210 | 10 | 12.6V C.T. @ .80A | 6.3V @ 1.60A |
| PVD-1220 | 20 | 12.6V C.T. @ 1.60A | 6.3V @ 3.20A |
| PVD-1230 | 30 | 12.6V C.T. @ 2.40A | 6.3V @ 4.80A |
| PVD-1256 | 56 | 12.6V C.T. @ 4.40A | 6.3V @ 8.80A |
| | | | |
| PVD-162 | 2.5 | 16V C.T. @ .15A | 8V @ .30A |
| PVD-165 | 5 | 16V C.T. @ .31A | 8V @ .62A |
| PVD-1610 | 10 | 16V C.T. @ .62A | 8V @ 1.25A |
| PVD-1620 | 20 | 16V C.T. @ 1.25A | 8V @ 2.50A |
| PVD-1630 | 30 | 16V C.T. @ 1.90A | 8V @ 3.80A |
| PVD-1656 | 56 | 16V C.T. @ 3.50A | 8V @ 7.00A |
| | | | |
| PVD-202 | 2.5 | 20V C.T. @ .12A | 10V @ .24A |
| PVD-205 | 5 | 20V C.T. @ .25A | 10V @ .50A |
| PVD-2010 | 10 | 20V C.T. @ .50A | 10V @ 1.00A |
| PVD-2020 | 20 | 20V C.T. @ 1.00A | 10V @ 2.00A |
| PVD-2030 | 30 | 20V C.T. @ 1.50A | 10V @ 3.00A |
| PVD-2056 | 56 | 20V C.T. @ 2.80A | 10V @ 5.60A |

| P/N DUAL 115/230V | SIZE (VA) | SECONDARY RMS RATINGS SERIES | PARALLEL |
|---|---|---|---|
| | | | |
| PVD-242 | 2.5 | 24V C.T. @ .10A | 12V @ .20A |
| PVD-245 | 5 | 24V C.T. @ .21A | 12V @ .42A |
| PVD-2410 | 10 | 24V C.T. @ .42A | 12V @ .84A |
| PVD-2420 | 20 | 24V C.T. @ .83A | 12V @ 1.66A |
| PVD-2430 | 30 | 24V C.T. @ 1.25A | 12V @ 2.50A |
| PVD-2456 | 56 | 24V C.T. @ 2.33A | 12V @ 4.66A |
| | | | |
| PVD-282 | 2.5 | 28V C.T. @ .09A | 14V @ .18A |
| PVD-285 | 5 | 28V C.T. @ .18A | 14V @ .36A |
| PVD-2810 | 10 | 28V C.T. @ .36A | 14V @ .72A |
| PVD-2820 | 20 | 28V C.T. @ .72A | 14V @ 1.44A |
| PVD-2830 | 30 | 28V C.T. @ 1.06A | 14V @ 2.12A |
| PVD-2856 | 56 | 28V C.T. @ 2.00A | 14V @ 4.00A |
| | | | |
| PVD-362 | 2.5 | 36V C.T. @ .07A | 18V @ .14A |
| PVD-365 | 5 | 36V C.T. @ .14A | 18V @ .28A |
| PVD-3610 | 10 | 36V C.T. @ .28A | 18V @ .56A |
| PVD-3620 | 20 | 36V C.T. @ .56A | 18V @ 1.12A |
| PVD-3630 | 30 | 36V C.T. @ .82A | 18V @ 1.64A |
| PVD-3656 | 56 | 36V C.T. @ 1.56A | 18V @ 3.12A |

## SCHEMATIC




## APPLICATION

**DUAL PRIMARIES:**
Series for 230V - 50/60Hz
Parallel for 115V - 50/60Hz

**HI-POT:**
4000Vac Primary To Secondary
4000Vac Windings to Core
130°C Insulation System

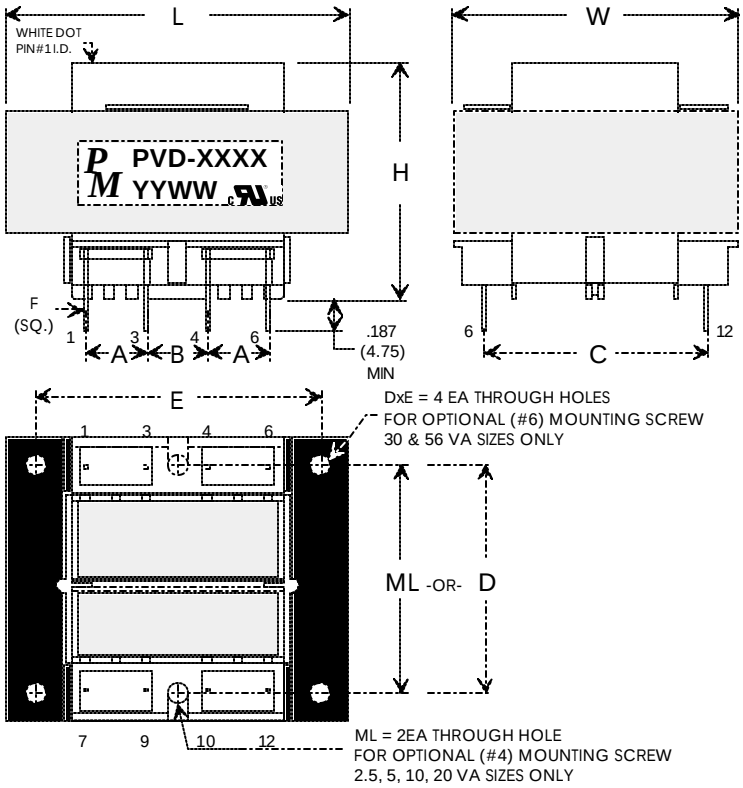
Note: Primary and Secondary windings are designed to be used as one primary & one secondary winding. That is, they must each be used simultaneously either parallel or series connected.

Specifications subject to change without notice. pvd 4/97

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# SHROUDED SPLIT BOBBIN HIGH ISOLATION POWER TRANSFORMERS

## PVD-XXX MECHANICAL




| SIZE (VA) | NOMINAL DIMENSIONS IN INCHES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | A | B | C | ML | D[1] | E[1] | F |
| 2.5 | 1-5/8 | 1-5/16 | 1.125 | .200 | .250 | 1.000 | 1-1/16 | ------ | ------ | .025 |
| 5 | 1-5/8 | 1-5/16 | 1.375 | .200 | .400 | 1.000 | 1-1/16 | ------ | ------ | .025 |
| 10 | 1-7/8 | 1-9/16 | 1.375 | .200 | .400 | 1.128 | 1-1/4 | ------ | ------ | .036 |
| 20 | 2-1/4 | 1-7/8 | 1.625 | .400 | .400 | 1.436 | 1-1/2 | ------ | ------ | .036 |
| 30 | 2-5/8 | 2-3/16 | 1.575 | .550 | .275 | 1.680 | ------ | 1-3/4 | 2-3/16 | .045 |
| 56 | 3.000 | 2.500 | 1.820 | .600 | .300 | 1.866 | ------ | 2.000 | 2-1/2 | .045 |

NOTES:
1) 4-HOLE CORNER PATTERN APPLIES TO 30 & 56VA SIZES ONLY

2) WHITE DOT ON TOP OF PART DENOTES PIN#1

**VARIATIONS AVAILABLE. FOR INTERMEDIATE VALUES AND/ OR CUSTOM DESIGNS PLEASE CONSULT THE FACTORY.**