



*Quality Products. Service Excellence.*

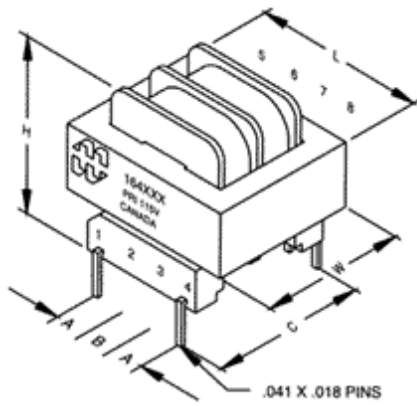
## Low Voltage PCB Mount - Low Profile - 1.1 VA to 36 VA 162-164 Series

### Features

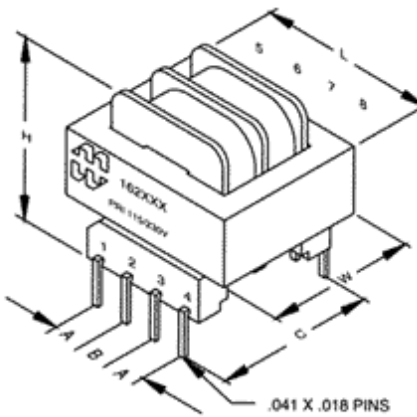
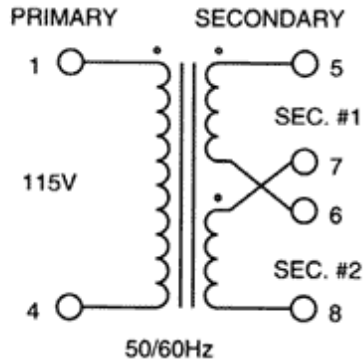


- 20 output voltages to choose from (5 - 120VAC R.M.S.)
- Six VA size models available from - 1.1 to 36VA
- Both series operate on 50/60 Hz current
- Low profile, split bobbin design.
- Dual winding secondaries, non-concentrically wound
- Units are designed so that all windings must be used
- Low primary to secondary coupling - no electrostatic shield required.
- Choice of economical single primary 115V (164 series) or universal dual primary 115/230V (162 series) - either model 50/60 Hz operation.
- High insulation - Hipot of 2,500V RMS.
- Class B insulation - 130 degrees C.
- No mounting hardware required on 1.1 and 2.4 VA sizes, two hole mounting on 6, 12 and 20VA sizes, four hole mounting on 36VA size (mounting screws not provided). P.C. board mount with industry standard pin spacing.
- c UL us recognized

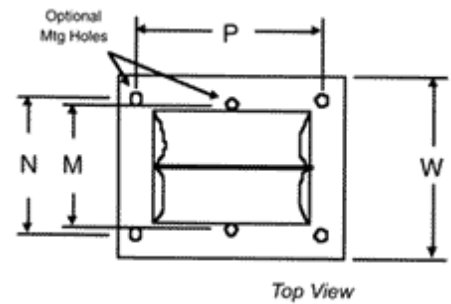
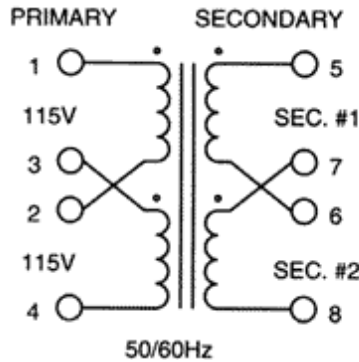




**Single Primary  
164 Series**



**Dual Primary  
162 Series**



| Part No<br>Single Primary | Part No<br>Dual Primary | Size<br>VA | Secondary (RMS)<br>Series | Parallel    |
|---------------------------|-------------------------|------------|---------------------------|-------------|
| 115V                      | 115/230V                |            |                           |             |
| 164D10                    | 162D10                  | 1.1        | 10V C.T. @ .11A           | 5V @ .22A   |
| 164E10                    | 162E10                  | 2.4        | 10V C.T. @ .25A           | 5V @ .5A    |
| 164F10                    | 162F10                  | 6          | 10V C.T. @ .6A            | 5V @ 1.2A   |
| 164G10                    | 162G10                  | 12         | 10V C.T. @ 1.2A           | 5V @ 2.4A   |
| 164H10                    | 162H10                  | 20         | 10V C.T. @ 2A             | 5V @ 4.0A   |
| 164J10                    | 162J10                  | 36         | 10V C.T. @ 3.6A           | 5V @ 7.2A   |
| 164D12                    | 162D12                  | 1.1        | 12.6V C.T. @ .09A         | 6.3V @ .18A |
| 164E12                    | 162E12                  | 2.4        | 12.6V C.T. @ .2A          | 6.3V @ .4A  |
| 164F12                    | 162F12                  | 6          | 12.6V C.T. @ .5A          | 6.3V @ 1.0A |
| 164G12                    | 162G12                  | 12         | 12.6V C.T. @ 1.0A         | 6.3V @ 2.0A |
| 164H12                    | 162H12                  | 20         | 12.6V C.T. @ 1.6A         | 6.3V @ 3.2A |
| 164J12                    | 162J12                  | 36         | 12.6V C.T. @ 2.85A        | 6.3V @ 5.7A |
| 164D16                    | 162D16                  | 1.1        | 16V C.T. @ .07A           | 8V @ .14A   |
| 164E16                    | 162E16                  | 2.4        | 16V C.T. @ .15A           | 8V @ .3A    |
| 164F16                    | 162F16                  | 6          | 16V C.T. @ .4A            | 8V @ .8A    |
| 164G16                    | 162G16                  | 12         | 16V C.T. @ .8A            | 8V @ 1.6A   |
| 164H16                    | 162H16                  | 20         | 16V C.T. @ 1.25A          | 8V @ 2.5A   |
| 164J16                    | 162J16                  | 36         | 16V C.T. @ 2.25A          | 8V @ 4.5A   |
| 164D20                    | 162D20                  | 1.1        | 20V C.T. @ .055A          | 10V @ .11A  |
| 164E20                    | 162E20                  | 2.4        | 20V C.T. @ .12A           | 10V @ .24A  |
| 164F20                    | 162F20                  | 6          | 20V C.T. @ .3A            | 10V @ .6A   |
| 164G20                    | 162G20                  | 12         | 20V C.T. @ .6A            | 10V @ 1.2A  |
| 164H20                    | 162H20                  | 20         | 20V C.T. @ 1A             | 10V @ 2.0A  |
| 164J20                    | 162J20                  | 36         | 20V C.T. @ 1.8A           | 10V @ 3.6A  |
| 164D24                    | 162D24                  | 1.1        | 24V C.T. @ .045A          | 12V @ .09A  |
| 164E24                    | 162E24                  | 2.4        | 24V C.T. @ .1A            | 12V @ .2A   |

| Part No<br>Single Primary<br>115V | Part No<br>Dual Primary<br>115/230V | Size<br>VA | Secondary (RMS)  |             |
|-----------------------------------|-------------------------------------|------------|------------------|-------------|
|                                   |                                     |            | Series           | Parallel    |
| 164F24                            | 162F24                              | 6          | 24V C.T. @ .25A  | 12V @ .5A   |
| 164G24                            | 162G24                              | 12         | 24V C.T. @ .5A   | 12V @ 1.0A  |
| 164H24                            | 162H24                              | 20         | 24V C.T. @ .8A   | 12V @ 1.6A  |
| 164J24                            | 162J24                              | 36         | 24V C.T. @ 1.5A  | 12V @ 3.0A  |
| 164D28                            | 162D28                              | 1.1        | 28V C.T. @ .04A  | 14V @ .08A  |
| 164E28                            | 162E28                              | 2.4        | 28V C.T. @ .085A | 14V @ .17A  |
| 164F28                            | 162F28                              | 6          | 28V C.T. @ .2A   | 14V @ .4A   |
| 164G28                            | 162G28                              | 12         | 28V C.T. @ .42A  | 14V @ .84A  |
| 164H28                            | 162H28                              | 20         | 28V C.T. @ .7A   | 14V @ 1.4A  |
| 164J28                            | 162J28                              | 36         | 28V C.T. @ 1.3A  | 14V @ 2.6A  |
| 164D36                            | 162D36                              | 1.1        | 36V C.T. @ .03A  | 18V @ .06A  |
| 164E36                            | 162E36                              | 2.4        | 36V C.T. @ .065A | 18V @ .13A  |
| 164F36                            | 162F36                              | 6          | 36V C.T. @ .17A  | 18V @ .34A  |
| 164G36                            | 162G36                              | 12         | 36V C.T. @ .35A  | 18V @ .7A   |
| 164H36                            | 162H36                              | 20         | 36V C.T. @ .55A  | 18V @ 1.1A  |
| 164J36                            | 162J36                              | 36         | 36V C.T. @ 1A    | 18V @ 2.0A  |
| 164D48                            | 162D48                              | 1.1        | 48V C.T. @ .023A | 24V @ .046A |
| 164E48                            | 162E48                              | 2.4        | 48V C.T. @ .05A  | 24V @ .1A   |
| 164F48                            | 162F48                              | 6          | 48V C.T. @ .125A | 24V @ .25A  |
| 164G48                            | 162G48                              | 12         | 48V C.T. @ .25A  | 24V @ .5A   |
| 164H48                            | 162H48                              | 20         | 48V C.T. @ .4A   | 24V @ .8A   |
| 164J48                            | 162J48                              | 36         | 48V C.T. @ .75A  | 24V @ 1.5A  |
| 164D56                            | 162D56                              | 1.1        | 56V C.T. @ .02A  | 28V @ .04A  |
| 164E56                            | 162E56                              | 2.4        | 56V C.T. @ .045A | 28V @ .09A  |
| 164F56                            | 162F56                              | 6          | 56V C.T. @ .11A  | 28V @ .22A  |
| 164G56                            | 162G56                              | 12         | 56V C.T. @ .22A  | 28V @ .44A  |
| 164H56                            | 162H56                              | 20         | 56V C.T. @ .35A  | 28V @ .7A   |
| 164J56                            | 162J56                              | 36         | 56V C.T. @ .65A  | 28V @ 1.3A  |
| 164D120                           | 162D120                             | 1.1        | 120V C.T. @ .01A | 60V @ .02A  |
| 164E120                           | 162E120                             | 2.4        | 120V C.T. @ .02A | 60V @ .04A  |
| 164F120                           | 162F120                             | 6          | 120V C.T. @ .05A | 60V @ .1A   |
| 164G120                           | 162G120                             | 12         | 120V C.T. @ .1A  | 60V @ .2A   |
| 164H120                           | 162H120                             | 20         | 120V C.T. @ .16A | 60V @ .32A  |
| 164J120                           | 162J120                             | 36         | 120V C.T. @ .3A  | 60V @ .6A   |

## Mechanical & Schematic Data

| (VA) | Part Number | Dimensions |      |       |      |      |      |      |      |      | Mounting | Weight |
|------|-------------|------------|------|-------|------|------|------|------|------|------|----------|--------|
| Size | Letter      | L          | W    | H     | A    | B    | C    | M    | N    | P    | Screw    | lbs.   |
| 1.1  | D           | 1.38       | 1.13 | 15/16 | 0.25 | 0.25 | 1.2  | -    | -    | -    | -        | 0.17   |
| 2.4  | E           | 1.38       | 1.13 | 1.19  | 0.25 | 0.25 | 1.2  | -    | -    | -    | -        | 0.25   |
| 6    | F           | 1.63       | 1.31 | 1.31  | 0.25 | 0.35 | 1.28 | 1.06 | -    | -    | #4       | 0.44   |
| 12   | G           | 1.88       | 1.56 | 1.50  | 0.30 | 0.40 | 1.41 | 1.25 | -    | -    | #4       | 0.7    |
| 20   | H           | 2.25       | 1.88 | 1.44  | 0.30 | 0.40 | 1.6  | 1.5  | -    | -    | #4       | 0.8    |
| 36   | J           | 2.63       | 2.19 | 1.56  | 0.40 | 0.40 | 1.85 | -    | 1.75 | 2.19 | #6       | 1.1    |

Tags: power transformers, output, low profile, bobbin, insulated

Data subject to change without notice

