



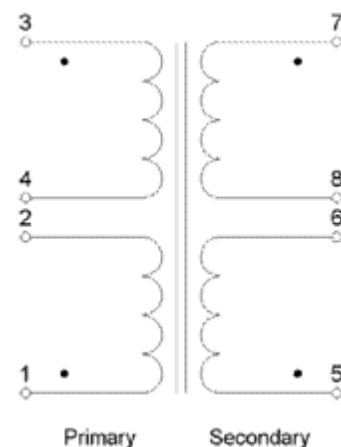
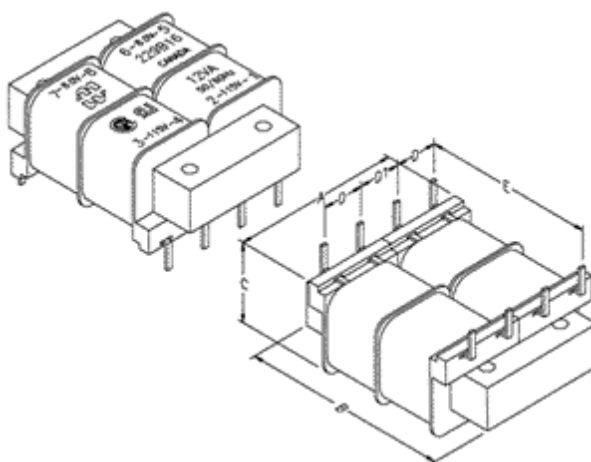
*Quality Products. Service Excellence.*

## Low Voltage PCB Mount - Low Profile 229 Series

### Features



- Low profile mounting, dual - split bobbin design.
- Low primary to secondary coupling, balanced windings, no electrostatic shield required and low EMF radiation due to semi-toroidal design.
- Universal dual primary 115/230V - 50/60 Hz.
- High insulation - Hipot of 1,750V RMS.
- Class B insulation - 130 degrees C.
- C UL US recognized. UL file E207860



| Dual Primary<br>115/230V |              | Secondary (RMS)    |              |
|--------------------------|--------------|--------------------|--------------|
| Part No.                 | Size<br>(VA) | Series             | Parallel     |
| 229E10                   | 2            | 10V C.T. @ 250ma   | 5V @ 500ma   |
| 229A10                   | 6            | 10V C.T. @ 600ma   | 5V @ 1.2A    |
| 229B10                   | 12           | 10V C.T. @ 1.2A    | 5V @ 2.4A    |
| 229C10                   | 24           | 10V C.T. @ 2.4A    | 5V @ 4.8A    |
| 229D10                   | 48           | 10V C.T. @ 4.8A    | 5V @ 9.6A    |
| 229E12                   | 2            | 12.6V C.T. @ 200ma | 6.3V @ 400ma |
| 229A12                   | 6            | 12.6V C.T. @ 450ma | 6.3V @ 900ma |
| 229B12                   | 12           | 12.6V C.T. @ 900ma | 6.3V @ 1.8a  |
| 229C12                   | 24           | 12.6V C.T. @ 1.9A  | 6.3V @ 3.8A  |
| 229D12                   | 48           | 12.6V C.T. @ 3.8A  | 6.3V @ 7.6A  |
| 229E16                   | 2            | 16V C.T. @ 150ma   | 8V @ 300ma   |
| 229A16                   | 6            | 16V C.T. @ 350ma   | 8V @ 700ma   |
| 229B16                   | 12           | 16V C.T. @ 700ma   | 8V @ 1.4A    |
| 229C16                   | 24           | 16V C.T. @ 1.5A    | 8V @ 3A      |
| 229D16                   | 48           | 16V C.T. @ 3A      | 8V @ 6A      |
| 229E20                   | 2            | 20V C.T. @ 125ma   | 10V @ 250ma  |
| 229A20                   | 6            | 20V C.T. @ 300ma   | 10V @ 600ma  |
| 229B20                   | 12           | 20V C.T. @ 600ma   | 10V @ 1.2A   |
| 229C20                   | 24           | 20V C.T. @ 1.2A    | 10V @ 2.4A   |
| 229D20                   | 48           | 20V C.T. @ 2.4A    | 10V @ 4.8A   |
| 229E24                   | 2            | 24V C.T. @ 100ma   | 12V @ 200ma  |

| Dual Primary |      |                   |              |
|--------------|------|-------------------|--------------|
| 115/230V     | Size | Secondary (RMS)   |              |
| Part No.     | (VA) | Series            | Parallel     |
| 229A24       | 6    | 24V C.T. @ 250ma  | 12V @ 500ma  |
| 229B24       | 12   | 24V C.T. @ 500ma  | 12V @ 1A     |
| 229C24       | 24   | 24V C.T. @ 1A     | 12V @ 2A     |
| 229D24       | 48   | 24V C.T. @ 2A     | 12V @ 4A     |
| 229E30       | 2    | 30V C.T. @ 85ma   | 15V @ 170ma  |
| 229A30       | 6    | 30V C.T. @ 200ma  | 15V @ 400ma  |
| 229B30       | 12   | 30V C.T. @ 400ma  | 15V @ 800ma  |
| 229C30       | 24   | 30V C.T. @ 800ma  | 15V @ 1.6A   |
| 229D30       | 48   | 30V C.T. @ 1.6A   | 15V @ 3.2A   |
| 229E34       | 2    | 34V C.T. @ 75ma   | 17V @ 150ma  |
| 229A34       | 6    | 34V C.T. @ 170ma  | 17V @ 340ma  |
| 229B34       | 12   | 34V C.T. @ 340ma  | 17V @ 680ma  |
| 229C34       | 24   | 34V C.T. @ 700ma  | 17V @ 1.4A   |
| 229D34       | 48   | 34V C.T. @ 1.4A   | 17V @ 2.8A   |
| 229E40       | 2    | 40V C.T. @ 60ma   | 20V @ 120ma  |
| 229A40       | 6    | 40V C.T. @ 150ma  | 20V @ 300ma  |
| 229B40       | 12   | 40V C.T. @ 300ma  | 20V @ 600ma  |
| 229C40       | 24   | 40V C.T. @ 600ma  | 20V @ 1.2A   |
| 229D40       | 48   | 40V C.T. @ 1.2A   | 20V @ 2.4A   |
| 229E56       | 2    | 56V C.T. @ 45ma   | 28V @ 90ma   |
| 229A56       | 6    | 56V C.T. @ 100ma  | 28V @ 200ma  |
| 229B56       | 12   | 56V C.T. @ 200ma  | 28V @ 400ma  |
| 229C56       | 24   | 56V C.T. @ 425ma  | 28V @ 850ma  |
| 229D56       | 48   | 56V C.T. @ 850ma  | 28V @ 1.7A   |
| 229E88       | 2    | 88V C.T. @ 28ma   | 44V @ 56ma   |
| 229A88       | 6    | 88V C.T. @ 65ma   | 44V @ 130ma  |
| 229B88       | 12   | 88V C.T. @ 130ma  | 44V @ 260ma  |
| 229E120      | 2    | 120V C.T. @ 20ma  | 60V @ 40ma   |
| 229A120      | 6    | 120V C.T. @ 50ma  | 60V @ 100ma  |
| 229B120      | 12   | 120V C.T. @ 100ma | 60V @ 200ma  |
| 229E230      | 2    | 230V C.T. @ 10ma  | 115V @ 20ma  |
| 229A230      | 6    | 230V C.T. @ 25ma  | 115V @ 50ma  |
| 229B230      | 12   | 230V C.T. @ 50ma  | 115V @ 100ma |

### Mechanical & Schematic Data

| Size | PC Board   |              |             | Dimensions |      |      |      |      |      |  |
|------|------------|--------------|-------------|------------|------|------|------|------|------|--|
| (VA) | Regulation | Card Spacing | Pin Size    | A          | B    | C    | D    | D1   | E    |  |
| 2    | 0.3        | 0.75         | 0.02 x 0.04 | 1.56       | 1.88 | 0.65 | 0.38 | 0.38 | 1.60 |  |
| 6    | 0.3        | 1.00         | 0.02 x 0.04 | 1.56       | 1.88 | 0.85 | 0.38 | 0.38 | 1.60 |  |
| 12   | 0.2        | 1.25         | 0.02 x 0.04 | 2.00       | 2.50 | 1.07 | 0.50 | 0.50 | 2.00 |  |
| 24   | 0.15       | 1.50         | 0.04 x 0.04 | 2.25       | 2.87 | 1.25 | 0.60 | 0.53 | 1.90 |  |
| 48   | 0.15       | 1.50         | 0.04 x 0.04 | 2.50       | 3.12 | 1.38 | 0.60 | 0.66 | 2.18 |  |

*Data subject to change without notice*

