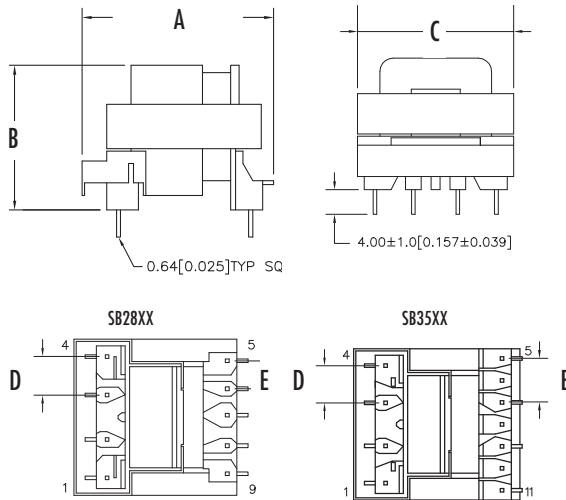
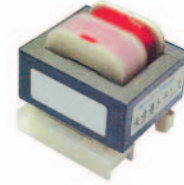


# Low Cost Power Transformers

- 120V Single Primary
- Class A & B Insulation
- 2,500Vrms HiPot (Pri:Sec)
- UL 94 V-0 Flammability
- Recognized Insulation System for custom designs.
- 1.2VA to 3VA
- Inherently and Non-Inherently Limited
- Designed to Meet UL1411, UL60950 and UL1585



Dimensions Inches (mm)

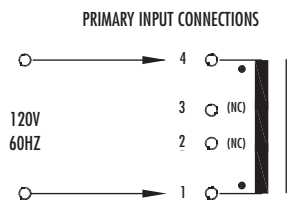
| Part # | A              | B              | C              | D               | E               |
|--------|----------------|----------------|----------------|-----------------|-----------------|
| SB2812 | 1.30<br>(33.0) | 1.14<br>(29.0) | 1.12<br>(28.5) | 0.295<br>(7.50) | 0.197<br>(5.00) |
| SB2816 | 1.30<br>(33.0) | 1.30<br>(33.0) | 1.12<br>(28.5) | 0.295<br>(7.50) | 0.197<br>(5.00) |
| SB3512 | 1.38<br>(35.0) | 1.26<br>(32.0) | 1.40<br>(35.5) | 0.295<br>(7.50) | 0.394<br>(10.0) |
| SB3516 | 1.38<br>(35.0) | 1.42<br>(36.0) | 1.40<br>(35.5) | 0.295<br>(7.50) | 0.394<br>(10.0) |

All dimensions are  $\pm 0.02$  (0.50) unless otherwise noted.

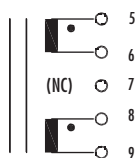
Packaging: Cardboard tray

| Part#     | Box |
|-----------|-----|
| SB2812/16 | 40  |
| SB3512/16 | 35  |

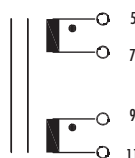
## Schematics



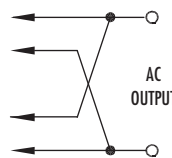
SB2812/16 PRIMARY OUTPUT CONNECTIONS



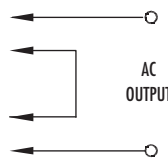
SB3512/16 PRIMARY OUTPUT CONNECTIONS



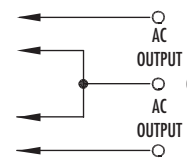
PARALLEL CONNECTIONS



SERIES CONNECTIONS



SERIES CONNECTIONS WITH CENTERTAP



| TAMURA PART NUMBER<br>SINGLE 120V 60Hz | SECONDARY RMS RATING |       |                  |       |                       |       |
|----------------------------------------|----------------------|-------|------------------|-------|-----------------------|-------|
|                                        | PARALLEL CONNECTED   |       | SERIES CONNECTED |       | SERIES CONNECTED w/CT |       |
|                                        | AC VOLTS             | mAmps | AC VOLTS         | mAmps | AC VOLTS              | mAmps |
| <a href="#">SB2812-1204</a>            | 2.0                  | 600   | 4.0              | 300   | 2.0-CT-2.0            | 300   |
| <a href="#">SB2816-1604</a>            | 2.0                  | 800   | 4.0              | 400   | 2.0-CT-2.0            | 400   |
| <a href="#">SB3512-2004</a>            | 2.0                  | 1000  | 4.0              | 500   | 2.0-CT-2.0            | 500   |
| <a href="#">SB3516-3004</a>            | 2.0                  | 1500  | 4.0              | 750   | 2.0-CT-2.0            | 750   |
| <a href="#">SB2812-1206</a>            | 3.0                  | 400   | 6.0              | 200   | 3.0-CT-3.0            | 200   |
| <a href="#">SB2816-1606</a>            | 3.0                  | 530   | 6.0              | 265   | 3.0-CT-3.0            | 265   |
| <a href="#">SB3512-2006</a>            | 3.0                  | 670   | 6.0              | 335   | 3.0-CT-3.0            | 335   |
| <a href="#">SB3516-3006</a>            | 3.0                  | 1000  | 6.0              | 500   | 3.0-CT-3.0            | 500   |
| <a href="#">SB2812-1210</a>            | 5.0                  | 240   | 10.0             | 120   | 5.0-CT-5.0            | 120   |
| <a href="#">SB2816-1610</a>            | 5.0                  | 320   | 10.0             | 160   | 5.0-CT-5.0            | 160   |
| <a href="#">SB3512-2010</a>            | 5.0                  | 400   | 10.0             | 200   | 5.0-CT-5.0            | 200   |
| <a href="#">SB3516-3010</a>            | 5.0                  | 600   | 10.0             | 300   | 5.0-CT-5.0            | 300   |
| <a href="#">SB2812-1214</a>            | 7.0                  | 170   | 14.0             | 85    | 7.0-CT-7.0            | 85    |
| <a href="#">SB2816-1614</a>            | 7.0                  | 230   | 14.0             | 115   | 7.0-CT-7.0            | 115   |
| <a href="#">SB3512-2014</a>            | 7.0                  | 290   | 14.0             | 145   | 7.0-CT-7.0            | 145   |
| <a href="#">SB3516-3014</a>            | 7.0                  | 430   | 14.0             | 215   | 7.0-CT-7.0            | 215   |
| <a href="#">SB2812-1216</a>            | 8.0                  | 150   | 16.0             | 75    | 8.0-CT-8.0            | 75    |
| <a href="#">SB2816-1616</a>            | 8.0                  | 200   | 16.0             | 100   | 8.0-CT-8.0            | 100   |
| <a href="#">SB3512-2016</a>            | 8.0                  | 250   | 16.0             | 125   | 8.0-CT-8.0            | 125   |
| <a href="#">SB3516-3016</a>            | 8.0                  | 380   | 16.0             | 190   | 8.0-CT-8.0            | 190   |
| <a href="#">SB2812-1218</a>            | 9.0                  | 130   | 18.0             | 65    | 9.0-CT-9.0            | 65    |
| <a href="#">SB2816-1618</a>            | 9.0                  | 180   | 18.0             | 90    | 9.0-CT-9.0            | 90    |
| <a href="#">SB3512-2018</a>            | 9.0                  | 220   | 18.0             | 110   | 9.0-CT-9.0            | 110   |
| <a href="#">SB3516-3018</a>            | 9.0                  | 330   | 18.0             | 165   | 9.0-CT-9.0            | 165   |
| <a href="#">SB2812-1222</a>            | 11.0                 | 110   | 22.0             | 55    | 11.0-CT-11.0          | 55    |
| <a href="#">SB2816-1622</a>            | 11.0                 | 150   | 22.0             | 75    | 11.0-CT-11.0          | 75    |
| <a href="#">SB3512-2022</a>            | 11.0                 | 180   | 22.0             | 90    | 11.0-CT-11.0          | 90    |
| <a href="#">SB3516-3022</a>            | 11.0                 | 270   | 22.0             | 135   | 11.0-CT-11.0          | 135   |
| <a href="#">SB2812-1224</a>            | 12.0                 | 100   | 24.0             | 50    | 12.0-CT-12.0          | 50    |
| <a href="#">SB2816-1624</a>            | 12.0                 | 130   | 24.0             | 65    | 12.0-CT-12.0          | 65    |
| <a href="#">SB3512-2024</a>            | 12.0                 | 170   | 24.0             | 85    | 12.0-CT-12.0          | 85    |
| <a href="#">SB3516-3024</a>            | 12.0                 | 250   | 24.0             | 125   | 12.0-CT-12.0          | 125   |
| <a href="#">SB2812-1226</a>            | 13.0                 | 90    | 26.0             | 45    | 13.0-CT-13.0          | 45    |
| <a href="#">SB2816-1626</a>            | 13.0                 | 120   | 26.0             | 60    | 13.0-CT-13.0          | 60    |
| <a href="#">SB3512-2026</a>            | 13.0                 | 150   | 26.0             | 75    | 13.0-CT-13.0          | 75    |
| <a href="#">SB3516-3026</a>            | 13.0                 | 230   | 26.0             | 115   | 13.0-CT-13.0          | 115   |
| <a href="#">SB2812-1230</a>            | 15.0                 | 80    | 30.0             | 40    | 15.0-CT-15.0          | 40    |
| <a href="#">SB2816-1630</a>            | 15.0                 | 110   | 30.0             | 55    | 15.0-CT-15.0          | 55    |
| <a href="#">SB3512-2030</a>            | 15.0                 | 130   | 30.0             | 65    | 15.0-CT-15.0          | 65    |
| <a href="#">SB3516-3030</a>            | 15.0                 | 200   | 30.0             | 100   | 15.0-CT-15.0          | 100   |

1. -TF suffix for inherently limited product version.

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