

# One-4-All™ International Transformers Printed Circuit Mount



International Standards at Lower Cost with Better Performance



Signal's 14A transformers are used in low power applications and provide the high isolation, creepage and clearance necessary to comply with international safety standards.

#### General Specifications

- Power - 2.5 VA to 56 VA
- Dielectric Strength - 4000 Vrms Hipot
- Dual Primaries - 115/230 V - 50/60 Hz
- Dual Secondaries - Series or parallel
- Insulation System - Class F, 155°C, UL 1446 (E66312)
- Flammability Rating - Bobbin and shroud material meet UL 94-V0

#### Agency Certifications

- UL recognized to UL 506 / UL 5085-2, File # E63829
- CSA certified to C22.2 No. 66.1, File # 221070
- VDE certified to VDE 0805 / EN 60950, File # 1446

# CSA certified to C22.2 No. 66.3 / UL5085-3, File # 221070 - Class 2 Energy Limited



| Part Number  | VA   | Secondary RMS Rating |              |
|--------------|------|----------------------|--------------|
|              | Size | Series               | Parallel     |
| 14A-2.5R-10  | 2.5  | 10.0VCT @ 0.25A      | 5.0V @ 0.50A |
| 14A-5.0R-10  | 5    | 10.0VCT @ 0.50A      | 5.0V @ 1.00A |
| 14A-10R-10   | 10   | 10.0VCT @ 1.00A      | 5.0V @ 2.00A |
| 14A-2.5R-12# | 2.5  | 12.6VCT @ 0.20A      | 6.3V @ 0.40A |
| 14A-5.0R-12# | 5    | 12.6VCT @ 0.40A      | 6.3V @ 0.80A |
| 14A-10R-12#  | 10   | 12.6VCT @ 0.80A      | 6.3V @ 1.60A |
| 14A-2.5R-16# | 2.5  | 16.0VCT @ 0.15A      | 8.0V @ 0.30A |
| 14A-5.0R-16# | 5    | 16.0VCT @ 0.31A      | 8.0V @ 0.62A |
| 14A-10R-16#  | 10   | 16.0VCT @ 0.62A      | 8.0V @ 1.25A |
| 14A-2.5R-20# | 2.5  | 20.0VCT @ 0.12A      | 10V @ 0.24A  |
| 14A-5.0R-20# | 5    | 20.0VCT @ 0.25A      | 10V @ 0.50A  |
| 14A-10R-20#  | 10   | 20.0VCT @ 0.50A      | 10V @ 1.00A  |
| 14A-2.5R-24# | 2.5  | 24.0VCT @ 0.10A      | 12V @ 0.20A  |
| 14A-5.0R-24# | 5    | 24.0VCT @ 0.21A      | 12V @ 0.42A  |
| 14A-10R-24#  | 10   | 24.0VCT @ 0.42A      | 12V @ 0.84A  |
| 14A-2.5R-28  | 2.5  | 28.0VCT @ 0.09A      | 14V @ 0.18A  |
| 14A-5.0R-28  | 5    | 28.0VCT @ 0.18A      | 14V @ 0.36A  |
| 14A-10R-28   | 10   | 28.0VCT @ 0.36A      | 14V @ 0.72A  |
| 14A-2.5R-36  | 2.5  | 36.0VCT @ 0.07A      | 18V @ 0.14A  |
| 14A-5.0R-36  | 5    | 36.0VCT @ 0.14A      | 18V @ 0.28A  |
| 14A-10R-36   | 10   | 36.0VCT @ 0.28A      | 18V @ 0.56A  |

| Part Number | VA   | Secondary RMS Rating |              |
|-------------|------|----------------------|--------------|
|             | Size | Series               | Parallel     |
| 14A-20-10   | 20   | 10.0VCT @ 2.0A       | 5.0V @ 4.0A  |
| 14A-30-10   | 30   | 10.0VCT @ 3.0A       | 5.0V @ 6.0A  |
| 14A-56-10   | 56   | 10.0VCT @ 5.6A       | 5.0V @ 11.2A |
| 14A-20-12#  | 20   | 12.6VCT @ 1.6A       | 6.3V @ 3.2A  |
| 14A-30-12#  | 30   | 12.6VCT @ 2.4A       | 6.3V @ 4.8A  |
| 14A-56-12   | 56   | 12.6VCT @ 4.4A       | 6.3V @ 8.8A  |
| 14A-20-16#  | 20   | 16.0VCT @ 1.25A      | 8.0V @ 2.5A  |
| 14A-30-16#  | 30   | 16.0VCT @ 1.9A       | 8.0V @ 3.8A  |
| 14A-56-16   | 56   | 16.0VCT @ 3.5A       | 8.0V @ 7.0A  |
| 14A-20-20#  | 20   | 20.0VCT @ 1.0A       | 10V @ 2.0A   |
| 14A-30-20#  | 30   | 20.0VCT @ 1.5A       | 10V @ 3.0A   |
| 14A-56-20   | 56   | 20.0VCT @ 2.8A       | 10V @ 5.6A   |
| 14A-20-24#  | 20   | 24.0VCT @ 0.83A      | 12V @ 1.66A  |
| 14A-30-24#  | 30   | 24.0VCT @ 1.25A      | 12V @ 2.50A  |
| 14A-56-24   | 56   | 24.0VCT @ 2.33       | 12V @ 4.66A  |
| 14A-20-28   | 20   | 28.0VCT @ 0.72A      | 14V @ 1.44A  |
| 14A-30-28   | 30   | 28.0VCT @ 1.06A      | 14V @ 2.12A  |
| 14A-56-28   | 56   | 28.0VCT @ 2.0A       | 14V @ 4.0A   |
| 14A-20-36   | 20   | 36.0VCT @ 0.56A      | 18V @ 1.12A  |
| 14A-30-36   | 30   | 36.0VCT @ 0.82A      | 18V @ 1.64A  |
| 14A-56-36   | 56   | 36.0VCT @ 1.56A      | 18V @ 3.12A  |

Custom versions available upon request.

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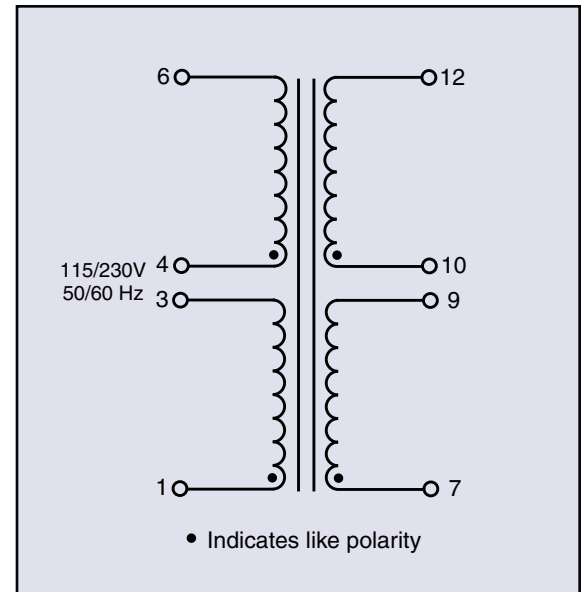
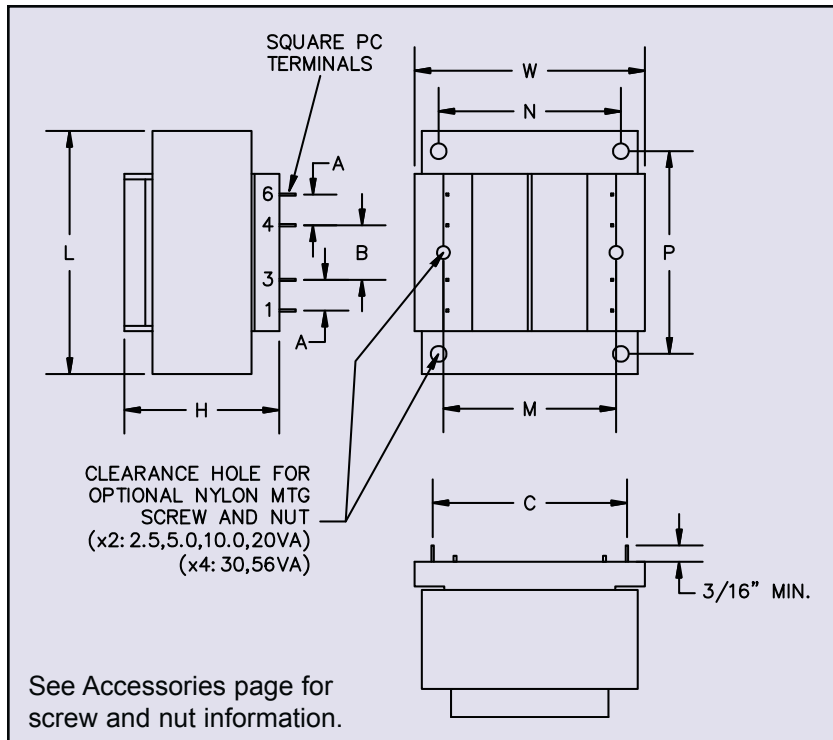


www.signaltransformer.com

500 Bayview Avenue, Inwood, NY 11096  
Toll Free 866-239-5777 • Tel 516-239-5777 • Fax 516-239-7208  
sales@signaltransformer.com • techhelp@signaltransformer.com

# One-4-All™ International Transformers Printed Circuit Mount

International Standards at Lower Cost with Better Performance



| VA   | Mechanical Dimensions |                |                |                |                 |                | Sq. Pin Dimensions | Mounting Dimensions |                |                | Mounting Screw |     | Weight          |
|------|-----------------------|----------------|----------------|----------------|-----------------|----------------|--------------------|---------------------|----------------|----------------|----------------|-----|-----------------|
|      | L                     | W              | H*             | A              | B               | C              |                    | M                   | N              | P              |                |     |                 |
| Size | Inches (mm)           |                |                |                |                 |                |                    |                     |                |                | Size           | Qty | lbs (kg)        |
| 2.5  | 1.62<br>(41.3)        | 1.43<br>(36.5) | 1.12<br>(28.6) | 0.20<br>(5.08) | 0.25<br>(6.35)  | 1.00<br>(25.4) | 0.025<br>(0.64)    | 1.06<br>(26.9)      | -              | -              | #4             | 2   | 0.25<br>(0.113) |
| 5    | 1.62<br>(41.3)        | 1.43<br>(36.5) | 1.37<br>(34.9) | 0.20<br>(5.08) | 0.40<br>(10.16) | 1.00<br>(25.4) | 0.025<br>(0.64)    | 1.06<br>(26.9)      | -              | -              | #4             | 2   | 0.37<br>(0.168) |
| 10   | 1.87<br>(47.6)        | 1.56<br>(39.7) | 1.37<br>(34.9) | 0.20<br>(5.08) | 0.40<br>(10.16) | 1.14<br>(29.0) | 0.036<br>(0.91)    | 1.25<br>(31.7)      | -              | -              | #4             | 2   | 0.53<br>(0.240) |
| 20   | 2.25<br>(57.2)        | 1.87<br>(47.6) | 1.62<br>(41.3) | 0.40<br>(10.2) | 0.40<br>(10.2)  | 1.46<br>(37.1) | 0.036<br>(0.91)    | 1.50<br>(38.1)      | -              | -              | #4             | 2   | 0.90<br>(0.41)  |
| 30   | 2.62<br>(66.7)        | 2.18<br>(55.5) | 1.56<br>(39.7) | 0.55<br>(13.9) | 0.27<br>(7.0)   | 1.68<br>(42.7) | 0.045<br>(1.14)    | -                   | 1.75<br>(44.4) | 2.18<br>(55.5) | #6             | 4   | 1.15<br>(0.52)  |
| 56   | 3.00<br>(76.2)        | 2.50<br>(63.5) | 1.83<br>(46.5) | 0.60<br>(15.2) | 0.30<br>(7.6)   | 1.90<br>(48.3) | 0.045<br>(1.14)    | -                   | 2.00<br>(50.8) | 2.50<br>(6.35) | #6             | 4   | 1.70<br>(0.77)  |

\*Note: Dimension H represents the total distance from the seating plane to the uppermost surface, stand offs and/or risers inclusive.

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www.signaltransformer.com

500 Bayview Avenue, Inwood, NY 11096  
Toll Free 866-239-5777 • Tel 516-239-5777 • Fax 516-239-7208  
sales@signaltransformer.com • techhelp@signaltransformer.com