

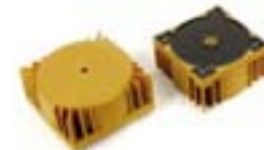
# TOROIDAL TRANSFORMER 50/60HZ, 115/230 VAC, ENCAP

ACTT-0xxx-xx

UL 506, 5085-1&2, UL6500/60065  
APPROVED



RoHS  
Compliant



size varies

## FEATURES:

- Multilayer monolithic construction yields high reliability
- Fully encapsulated; magnetically shielded
- Low profile; High efficiency
- Low standby current
- Low magnetic stray field emissions
- Safety approved-UL506, UL5085-1&2 for general purpose, UL6500/UL60065 for audio/video apparatus
- High ambient operating temperature (+60°C maximum)
- Primary – Dual primary (115V/230V 50/60Hz)

- Power – 1.6VA to 85VA; Dielectric Strength – 4000Vrms
- Secondary – Series or parallel
- Insulation Class – Class F (155°C)

## APPLICATIONS:

- Medical Equipment
- Test Equipment
- Media and Advanced Audio Equipment
- Broadcast Sound Systems

## STANDARD SPECIFICATIONS:

### PARAMETERS

|                        |                     |
|------------------------|---------------------|
| ABRACON P/N:           | ACTT-0xxx-xx Series |
| Operating temperature: | -40°C to + 120°C    |
| Storage temperature:   | -40°C to + 105°C    |
| Input Voltage:         | 2 x 115 V           |

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0016-12 | 12       | 133       | 6        | 266      |
| ACTT-0016-14 | 14       | 114       | 7        | 228      |
| ACTT-0016-18 | 18       | 89        | 9        | 178      |
| ACTT-0016-24 | 24       | 67        | 12       | 134      |
| ACTT-0016-30 | 30       | 53        | 15       | 106      |
| ACTT-0016-36 | 36       | 44        | 18       | 88       |
| ACTT-0016-44 | 44       | 36        | 22       | 72       |
| ACTT-0016-48 | 48       | 33        | 24       | 66       |

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0050-12 | 12       | 416       | 6        | 832      |
| ACTT-0050-14 | 14       | 357       | 7        | 714      |
| ACTT-0050-18 | 18       | 278       | 9        | 556      |
| ACTT-0050-24 | 24       | 208       | 12       | 416      |
| ACTT-0050-30 | 30       | 167       | 15       | 334      |
| ACTT-0050-36 | 36       | 139       | 18       | 278      |
| ACTT-0050-44 | 44       | 114       | 22       | 228      |
| ACTT-0050-48 | 48       | 104       | 24       | 208      |

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0100-12 | 12       | 0.833     | 6        | 1.666    |
| ACTT-0100-14 | 14       | 0.714     | 7        | 1.428    |
| ACTT-0100-18 | 18       | 0.556     | 9        | 1.112    |
| ACTT-0100-24 | 24       | 0.417     | 12       | 0.834    |
| ACTT-0100-30 | 30       | 0.333     | 15       | 0.666    |
| ACTT-0100-36 | 36       | 0.278     | 18       | 0.556    |
| ACTT-0100-44 | 44       | 0.227     | 22       | 0.454    |
| ACTT-0100-48 | 48       | 0.208     | 24       | 0.416    |

## OPTIONS AND PART IDENTIFICATION:

ACTT-□□□□-□□

### Power Code

Please see Section 5,  
i.e. 0016=1.6VA

### Series Voltage Value

Please refer to the  
tables

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0032-12 | 12       | 266       | 6        | 532      |
| ACTT-0032-14 | 14       | 229       | 7        | 458      |
| ACTT-0032-18 | 18       | 178       | 9        | 356      |
| ACTT-0032-24 | 24       | 133       | 12       | 266      |
| ACTT-0032-30 | 30       | 107       | 15       | 214      |
| ACTT-0032-36 | 36       | 89        | 18       | 178      |
| ACTT-0032-44 | 44       | 73        | 22       | 146      |
| ACTT-0032-48 | 48       | 66        | 24       | 132      |

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0070-12 | 12       | 583       | 6        | 1166     |
| ACTT-0070-14 | 14       | 500       | 7        | 1000     |
| ACTT-0070-18 | 18       | 389       | 9        | 778      |
| ACTT-0070-24 | 24       | 292       | 12       | 584      |
| ACTT-0070-30 | 30       | 233       | 15       | 466      |
| ACTT-0070-36 | 36       | 194       | 18       | 388      |
| ACTT-0070-44 | 44       | 159       | 22       | 318      |
| ACTT-0070-48 | 48       | 145       | 24       | 290      |

| Part#        | Series   |           | Parallel |          |
|--------------|----------|-----------|----------|----------|
|              | V (C.T.) | mA ( RMS) | V        | mA (RMS) |
| ACTT-0150-12 | 12       | 1.250     | 6        | 2.500    |
| ACTT-0150-14 | 14       | 1.071     | 7        | 2.142    |
| ACTT-0150-18 | 18       | 0.833     | 9        | 1.666    |
| ACTT-0150-24 | 24       | 0.625     | 12       | 1.250    |
| ACTT-0150-30 | 30       | 0.500     | 15       | 1.000    |
| ACTT-0150-36 | 36       | 0.417     | 18       | 0.834    |
| ACTT-0150-44 | 44       | 0.341     | 22       | 0.682    |
| ACTT-0150-48 | 48       | 0.312     | 24       | 0.624    |

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



ABRACON  
CORPORATION

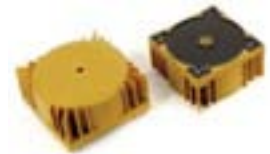
Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale Revised: 02.22.08  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)

# TOROIDAL TRANSFORMER 50/60HZ, 115/230 VAC, ENCAP

ACTT-0xxx-xx



**RoHS**  
Compliant



size varies

| Part#        | Series   |          | Parallel |          |
|--------------|----------|----------|----------|----------|
|              | V (C.T.) | mA (RMS) | V        | mA (RMS) |
| ACTT-0250-12 | 12       | 2.083    | 6        | 4.166    |
| ACTT-0250-14 | 14       | 1.785    | 7        | 3.570    |
| ACTT-0250-18 | 18       | 1.377    | 9        | 2.754    |
| ACTT-0250-24 | 24       | 1.041    | 12       | 2.082    |
| ACTT-0250-30 | 30       | 0.832    | 15       | 1.664    |
| ACTT-0250-36 | 36       | 0.694    | 18       | 1.388    |
| ACTT-0250-44 | 44       | 0.568    | 22       | 1.136    |
| ACTT-0250-48 | 48       | 0.520    | 24       | 1.040    |

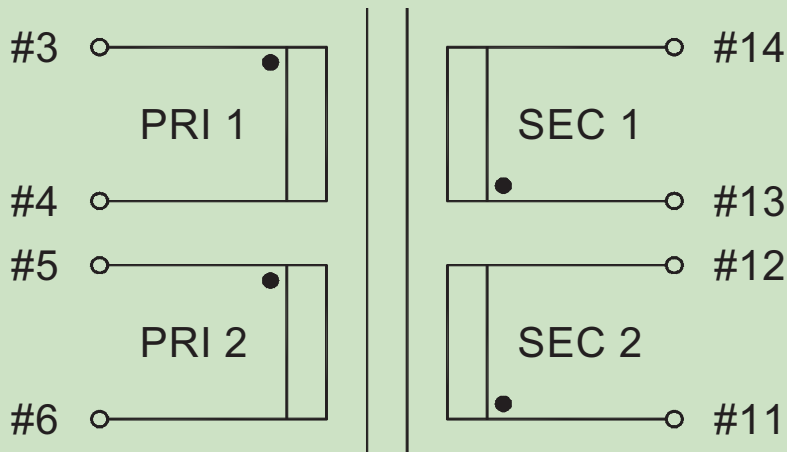
| Part#        | Series   |          | Parallel |          |
|--------------|----------|----------|----------|----------|
|              | V (C.T.) | mA (RMS) | V        | mA (RMS) |
| ACTT-0350-12 | 12       | 2.916    | 6        | 5.832    |
| ACTT-0350-14 | 14       | 2.500    | 7        | 5.000    |
| ACTT-0350-18 | 18       | 1.944    | 9        | 3.888    |
| ACTT-0350-24 | 24       | 1.458    | 12       | 2.916    |
| ACTT-0350-30 | 30       | 1.167    | 15       | 2.334    |
| ACTT-0350-36 | 36       | 0.972    | 18       | 1.944    |
| ACTT-0350-44 | 44       | 0.795    | 22       | 1.590    |
| ACTT-0350-48 | 48       | 0.729    | 24       | 1.458    |

| Part#        | Series   |          | Parallel |          |
|--------------|----------|----------|----------|----------|
|              | V (C.T.) | mA (RMS) | V        | mA (RMS) |
| ACTT-0500-12 | 12       | 4.166    | 6        | 8.332    |
| ACTT-0500-14 | 14       | 3.571    | 7        | 7.142    |
| ACTT-0500-18 | 18       | 2.777    | 9        | 5.554    |
| ACTT-0500-24 | 24       | 2.083    | 12       | 4.166    |
| ACTT-0500-30 | 30       | 1.666    | 15       | 3.332    |
| ACTT-0500-36 | 36       | 1.388    | 18       | 2.776    |
| ACTT-0500-44 | 44       | 1.136    | 22       | 2.272    |
| ACTT-0500-48 | 48       | 1.041    | 24       | 2.082    |

| Part#        | Series   |          | Parallel |          |
|--------------|----------|----------|----------|----------|
|              | V (C.T.) | mA (RMS) | V        | mA (RMS) |
| ACTT-0650-12 | 12       | 5.416    | 6        | 10.832   |
| ACTT-0650-14 | 14       | 4.642    | 7        | 9.284    |
| ACTT-0650-18 | 18       | 3.611    | 9        | 7.222    |
| ACTT-0650-24 | 24       | 2.708    | 12       | 5.416    |
| ACTT-0650-30 | 30       | 2.116    | 15       | 4.322    |
| ACTT-0650-36 | 36       | 1.085    | 18       | 3.61     |
| ACTT-0650-44 | 44       | 1.477    | 22       | 2.954    |
| ACTT-0650-48 | 48       | 1.354    | 24       | 2.708    |

| Part#        | Series   |          | Parallel |          |
|--------------|----------|----------|----------|----------|
|              | V (C.T.) | mA (RMS) | V        | mA (RMS) |
| ACTT-0850-12 | 12       | 7.083    | 6        | 14.166   |
| ACTT-0850-14 | 14       | 6.071    | 7        | 12.142   |
| ACTT-0850-18 | 18       | 4.722    | 9        | 9.444    |
| ACTT-0850-24 | 24       | 3.541    | 12       | 7.082    |
| ACTT-0850-30 | 30       | 2.833    | 15       | 5.666    |
| ACTT-0850-36 | 36       | 2.361    | 18       | 4.722    |
| ACTT-0850-44 | 44       | 1.931    | 22       | 3.862    |
| ACTT-0850-48 | 48       | 1.770    | 24       | 3.540    |

## SCHEMATICS:



# TOROIDAL TRANSFORMER 50/60HZ, 115/230 VAC, ENCAP

ACTT-0xxx-xx

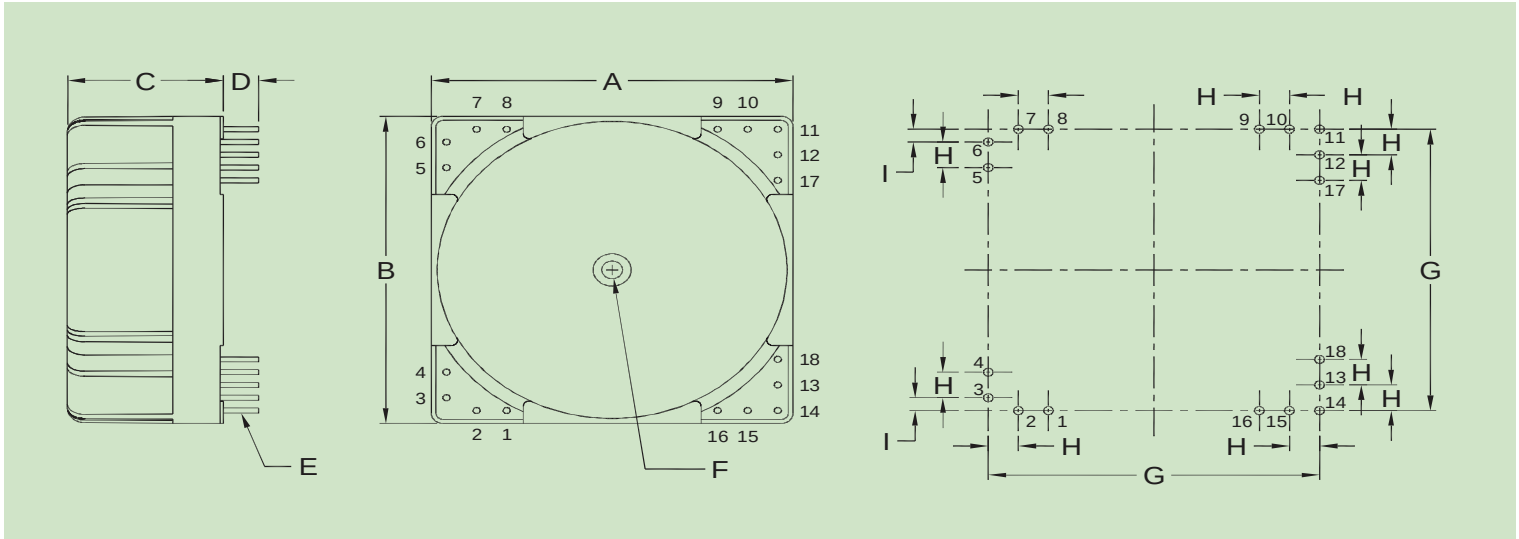


**RoHS**  
Compliant



size varies

## OUTLINE DRAWING:



| PART NO      | POWER | A     | B     | C     | D     | E       | F      | G     | H    | I    |
|--------------|-------|-------|-------|-------|-------|---------|--------|-------|------|------|
| ACTT-0016-xx | 1.6VA | 1.575 | 1.575 | 0.728 | 0.157 | 0.025SQ | Ø0.138 | 1.40  | 0.20 | 0.10 |
|              |       | 40.0  | 40.0  | 18.5  | 4.0   | 0.64SQ  | Ø3.5   | 35.56 | 5.08 | 2.54 |
| ACTT-0032-xx | 3.2VA | 1.772 | 1.772 | 0.768 | 0.157 | 0.025SQ | Ø0.138 | 1.60  | 0.20 | 0.10 |
|              |       | 45.0  | 45.0  | 19.5  | 4.0   | 0.64SQ  | Ø3.5   | 40.64 | 5.08 | 2.54 |
| ACTT-0050-xx | 5.0VA | 1.969 | 1.969 | 0.768 | 0.157 | 0.025SQ | Ø0.138 | 1.80  | 0.20 | 0.10 |
|              |       | 50.0  | 50.0  | 19.5  | 4.0   | 0.64SQ  | Ø3.5   | 45.72 | 5.08 | 2.54 |
| ACTT-0070-xx | 7.0VA | 1.969 | 1.969 | 0.909 | 0.157 | 0.025SQ | Ø0.138 | 1.80  | 0.20 | 0.10 |
|              |       | 50.0  | 50.0  | 23.1  | 4.0   | 0.64SQ  | Ø3.5   | 45.72 | 5.08 | 2.54 |
| ACTT-0100-xx | 10VA  | 2.205 | 2.205 | 1.024 | 0.157 | 0.031SQ | Ø0.138 | 2.00  | 0.20 | 0.10 |
|              |       | 56.0  | 56.0  | 26.0  | 4.0   | 0.80SQ  | Ø3.5   | 50.80 | 5.08 | 2.54 |
| ACTT-0150-xx | 15VA  | 2.402 | 2.402 | 1.035 | 0.157 | 0.031SQ | Ø0.138 | 2.20  | 0.20 | 0.10 |
|              |       | 61.0  | 61.0  | 26.3  | 4.0   | 0.80SQ  | Ø3.5   | 55.88 | 5.08 | 2.54 |
| ACTT-0250-xx | 25VA  | 2.402 | 2.402 | 1.476 | 0.157 | 0.031SQ | Ø0.138 | 2.20  | 0.20 | 0.10 |
|              |       | 61.0  | 61.0  | 37.5  | 4.0   | 0.80SQ  | Ø3.5   | 55.88 | 5.08 | 2.54 |
| ACTT-0350-xx | 35VA  | 2.953 | 2.953 | 1.476 | 0.157 | 0.031SQ | Ø0.236 | 2.60  | 0.20 | 0.10 |
|              |       | 75.0  | 75.0  | 37.5  | 4.0   | 0.80SQ  | Ø6.0   | 66.04 | 5.08 | 2.54 |
| ACTT-0500-xx | 50VA  | 3.244 | 3.244 | 1.476 | 0.157 | 0.039SQ | Ø0.236 | 2.99  | 0.20 | 0.10 |
|              |       | 82.4  | 82.4  | 37.5  | 4.0   | 1.00SQ  | Ø6.0   | 76.20 | 5.08 | 2.54 |
| ACTT-0650-xx | 65VA  | 3.622 | 3.622 | 1.535 | 0.157 | 0.039SQ | Ø0.276 | 3.30  | 0.30 | 0.10 |
|              |       | 92.0  | 92.0  | 39.0  | 4.0   | 1.00SQ  | Ø7.0   | 83.82 | 7.62 | 2.54 |
| ACTT-0850-xx | 85VA  | 3.937 | 3.937 | 1.654 | 0.157 | 0.039SQ | Ø0.276 | 3.60  | 0.30 | 0.10 |
|              |       | 100.0 | 100.0 | 42.0  | 4.0   | 1.00SQ  | Ø7.0   | 91.44 | 7.62 | 2.54 |

(Dimension)=  $\frac{\text{Inch}}{\text{mm}}$

- 1) Unused pins are omitted for standard parts. Unused pins can be provided on request.
- 2) Pin positions #1, 8, 9, 16, 17 & 18 are invalid for the 1.6VA series.
- 3) 1.6VA to 25VA series – blind center hole; 35VA to 85VA series – through center hole.

