

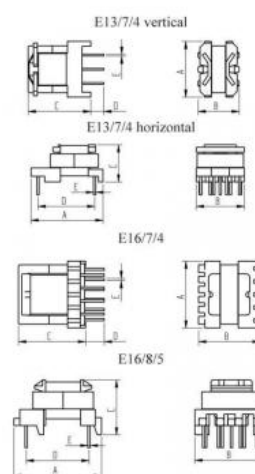
## WE-UNIT Off-Line Transformer

### Characteristics:

- Nominal input voltage: 125–375 VDC
- Output power 3 W and 9 W
- Operating temperature: –40 °C to +125 °C
- Clearance and creepage distance 6 mm min.
- Isolation voltage 4 kVAC

### Applications:

- Designed for Tiny Switch ICs from Power Integration and NCP101x or 105x of ON Semiconductor
- For SMPS with universal input from 85 VAC up to 265 VAC



**Dimensions**

| Size                     | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | Download                                                                                                                                                                                                                                                          |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">EE13/7/4</a> | 15.0      | 11.0      | 16.8      | 3.5       | 0.5       |    |
| <a href="#">EE13/7/4</a> | 21.5      | 15.0      | 12.0      | 15.35     | 0.6       |    |
| <a href="#">EE16/7/4</a> | 18.0      | 16.5      | 18.0      | 5.0       | 0.6       |    |
| <a href="#">EE16/8/5</a> | 24.5      | 20.2      | 16.5      | 17.0      | 0.64      |    |

### Electrical properties

#### EE13/7/4

|                                                                                     | Order Code | $U_i$<br>(V (AC)) | L<br>(mH) | n        | $R_{DC1}$<br>( $\Omega$ ) | $R_{DC2}$<br>(m $\Omega$ ) | $f_{switch}$<br>(kHz) | $L_S$<br>( $\mu$ H) | $U_{o1}$<br>(V) | $P_{o1}$<br>(W) | $U_T$<br>(V (AC)) |
|-------------------------------------------------------------------------------------|------------|-------------------|-----------|----------|---------------------------|----------------------------|-----------------------|---------------------|-----------------|-----------------|-------------------|
|  | 749118105  | 85-265            | 2.8       | 18.9 : 1 | 11                        | 50                         | 132                   | 280                 | 5.0             | 3               | 4.0               |
|  | 7491181012 | 85-265            | 2.8       | 8.1 : 1  | 11                        | 290                        | 132                   | 220                 | 12.0            | 3               | 4.0               |
|  | 7491181024 | 85-265            | 2.8       | 4 : 1    | 11                        | 1200                       | 132                   | 245                 | 24.0            | 3               | 4.0               |

### Electrical properties

#### EE13/7/4

|                                                                                     | Order Code | $U_i$<br>(V (AC)) | L<br>(mH) | n        | $R_{DC1}$<br>( $\Omega$ ) | $R_{DC2}$<br>(m $\Omega$ ) | $f_{switch}$<br>(kHz) | $L_S$<br>( $\mu$ H) | $U_{o1}$<br>(V) | $P_{o1}$<br>(W) | $U_T$<br>(V (AC)) |
|-------------------------------------------------------------------------------------|------------|-------------------|-----------|----------|---------------------------|----------------------------|-----------------------|---------------------|-----------------|-----------------|-------------------|
|  | 749118115  | 85-265            | 2.8       | 18.9 : 1 | 8                         | 50                         | 132                   | 180                 | 5.0             | 3               | 4.0               |
|  | 7491181112 | 85-265            | 2.8       | 8.1 : 1  | 8                         | 290                        | 132                   | 175                 | 12.0            | 3               | 4.0               |

|                                                                                   |            |        |     |       |   |      |     |     |      |   |     |
|-----------------------------------------------------------------------------------|------------|--------|-----|-------|---|------|-----|-----|------|---|-----|
|  | 7491181124 | 85-265 | 2.8 | 4 : 1 | 8 | 1200 | 132 | 172 | 24.0 | 3 | 4.0 |
|-----------------------------------------------------------------------------------|------------|--------|-----|-------|---|------|-----|-----|------|---|-----|

**Electrical properties****EE16/7/4**

|                                                                                   | Order Code | U <sub>i</sub><br>(V (AC)) | L<br>(mH) | n           | R <sub>DC1</sub><br>(Ω) | R <sub>DC2</sub><br>(mΩ) | f <sub>switch</sub><br>(kHz) | L <sub>s</sub><br>(μH) | U <sub>o1</sub><br>(V) | P <sub>o1</sub><br>(W) | U <sub>T</sub><br>(V (AC)) |
|-----------------------------------------------------------------------------------|------------|----------------------------|-----------|-------------|-------------------------|--------------------------|------------------------------|------------------------|------------------------|------------------------|----------------------------|
|  | 749118205  | 85-265                     | 0.9       | 19 : 1 : 1  | 4.3                     | 26                       | 132                          | 175                    | 5.0                    | 9                      | 4.0                        |
|  | 7491182012 | 85-265                     | 0.9       | 9.5 : 1 : 1 | 4.3                     | 75                       | 132                          | 145                    | 12.0                   | 9                      | 4.0                        |
|  | 7491182024 | 85-265                     | 0.9       | 4.4 : 1     | 4.3                     | 210                      | 132                          | 145                    | 24.0                   | 9                      | 4.0                        |

**Electrical properties****EE16/8/5**

|                                                                                   | Order Code | U <sub>i</sub><br>(V (AC)) | L<br>(mH) | n           | R <sub>DC1</sub><br>(Ω) | R <sub>DC2</sub><br>(mΩ) | f <sub>switch</sub><br>(kHz) | L <sub>s</sub><br>(μH) | U <sub>o1</sub><br>(V) | P <sub>o1</sub><br>(W) | U <sub>T</sub><br>(V (AC)) |
|-----------------------------------------------------------------------------------|------------|----------------------------|-----------|-------------|-------------------------|--------------------------|------------------------------|------------------------|------------------------|------------------------|----------------------------|
|  | 749118215  | 85-265                     | 0.9       | 19 : 1 : 1  | 3                       | 28                       | 132                          | 120                    | 5.0                    | 9                      | 4.0                        |
|  | 7491182112 | 85-265                     | 0.9       | 9.5 : 1 : 1 | 3                       | 94                       | 132                          | 112                    | 12.0                   | 9                      | 4.0                        |
|  | 7491182124 | 85-265                     | 0.9       | 4.4 : 1     | 3                       | 155                      | 132                          | 100                    | 24.0                   | 9                      | 4.0                        |

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