# Isolation Transformer

**ON Semiconductor NCP4305FBDAP**  
65W Off-Line AC/DC Adapter

- Designed for ON Semiconductor NCP4305FBDAP 65 W Off-Line AC/DC Adapter
- Suitable for gate drive and other power applications.
- 3000 Vrms, one minute isolation (Hiot) between windings
- Reinforced insulation class

**Core material**  Ferrite  
**Terminations**  RoHS tin-silver over tin over nickel over phos bronze.

**Weight**  0.77 g  
**Ambient temperature**  –40°C to +85°C  
**Storage temperature**  Component: –40°C to +85°C.  
    Tray packaging: –40°C to +80°C

**Resistance to soldering heat**  Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)**  1 (unlimited floor life at <30°C / 85% relative humidity)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  
10.06 per billion hours / 9.940E+07 hours, calculated per Telcordia SR-332

**Packaging**  100 per tray

**PCB washing**  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

## Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance1 ±30% (µH)</th>
<th>Volt-time product2 typ (Vµsec)</th>
<th>DCR max3 (mOhms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA6598-AL</td>
<td>16</td>
<td>8.64</td>
<td>33</td>
</tr>
</tbody>
</table>

1. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.  
2. Volt-time product is for the primary, between pin 1 and 2.  
3. DCR is for each winding.  
4. Electrical specifications at 25°C.  
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

**Dimensions**:  
- Dimensions are in inches or mm.