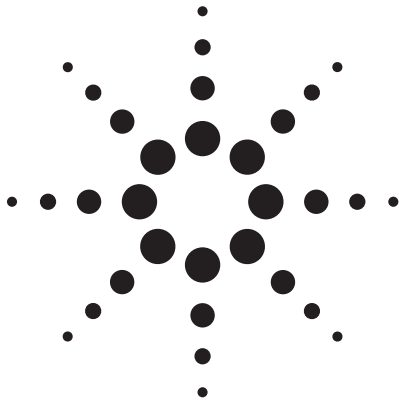


Agilent Option 300 Gull Wing Surface Mount Option for Optocouplers Data Sheet



Description

Option 300 is available on most optocouplers. It consists of standard dual-in-line package devices with gull wing leads. The lead profile is designed to be compatible with standard surface mount processes.

Option 300 enables electronic component assemblers to include Agilent Technologies optocouplers

on a PCB that utilizes surface mount processes. These options do not require “through hole” in a PCB. This reduces board costs, while potentially increasing assembly rates and component density per board. For the maximum solder reflow thermal profile, please refer to Figures 5 and 6.

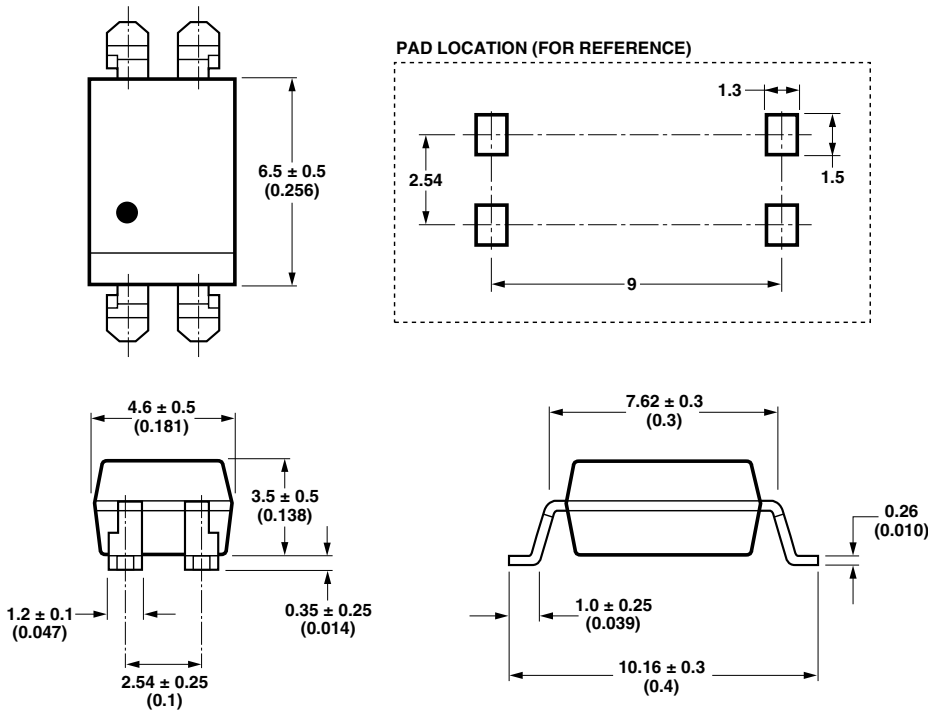
Ordering Information

To obtain optocouplers with gull wing leads, order the standard part number and Option 300.

Example:

HCPL-2630#300

For Option 300, 4-Pin 300 mil package is shipped in tubes with 100 units per tube. 6-Pin 300 mil package is shipped in tubes with 65 units per tube. 8-Pin 300 mil package is shipped in tubes with 50 units per tube. 8-Pin 400 mil package is shipped in tubes with 42 units. To obtain optocouplers with gull wing leads shipped in tape and reel, order Option 500 instead of Option 300.



DIMENSIONS IN MILLIMETERS AND (INCHES)

Figure 1. 4-pin 300 mil package.



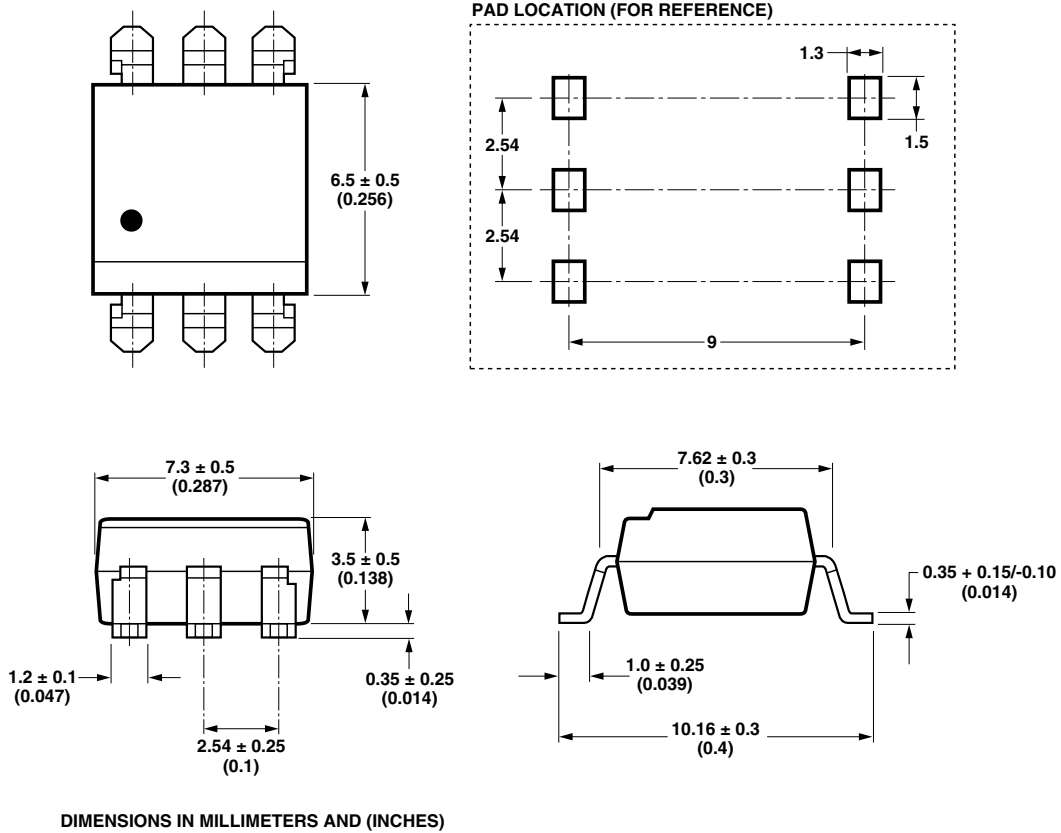


Figure 2. 6-pin 300 mil package.

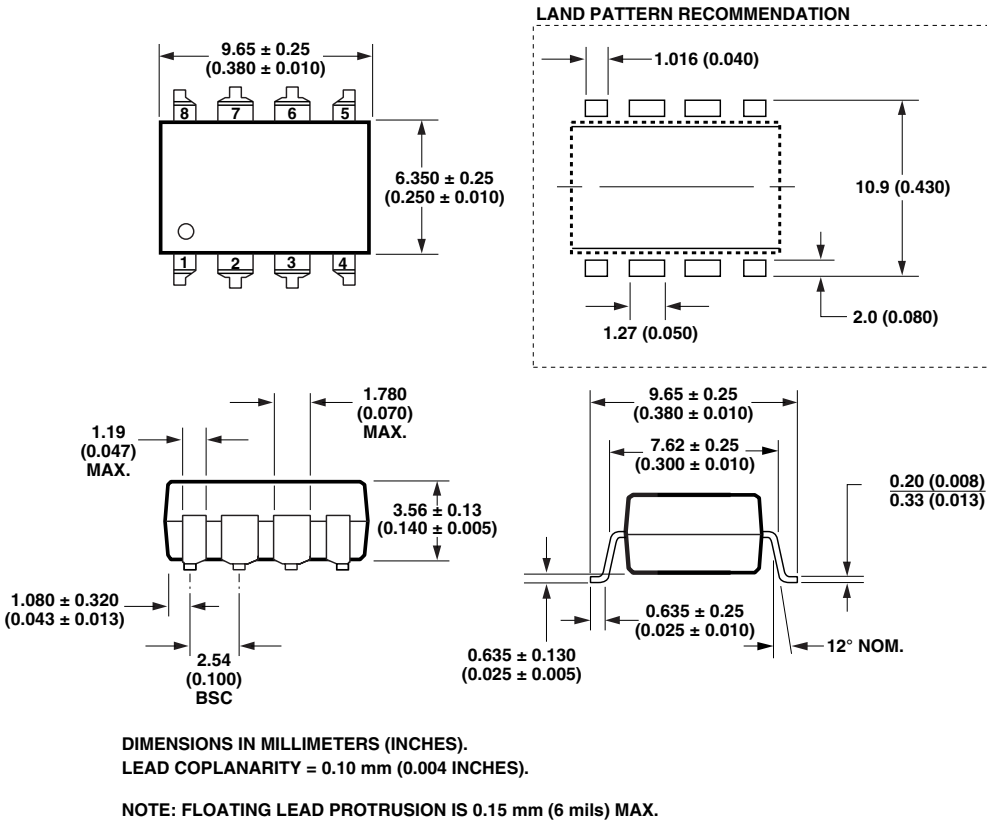


Figure 3. 8-pin 300 mil package.

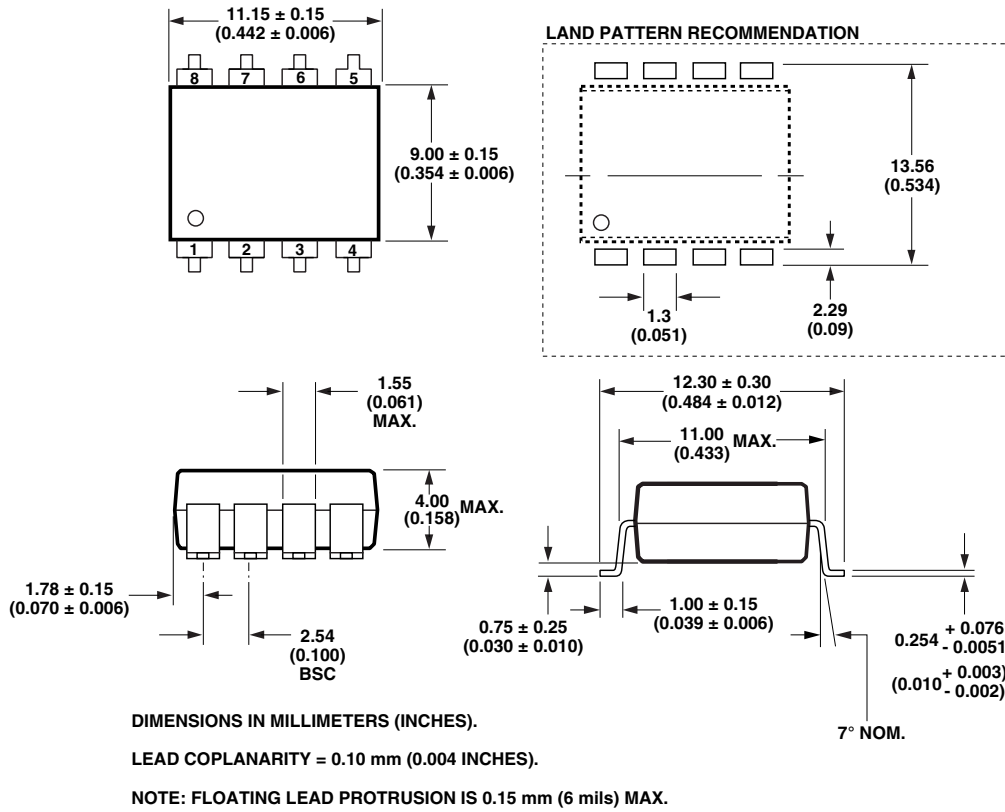


Figure 4. 8-pin 400 mil package.

Solder Reflow Temperature Profile

- 1) One-time soldering reflow is recommended within the condition of temperature and time profile shown at right.
- 2) When using another soldering method such as infrared ray lamp, the temperature may rise partially in the mold of the device. Keep the temperature on the package of the device within the condition of (1) above.

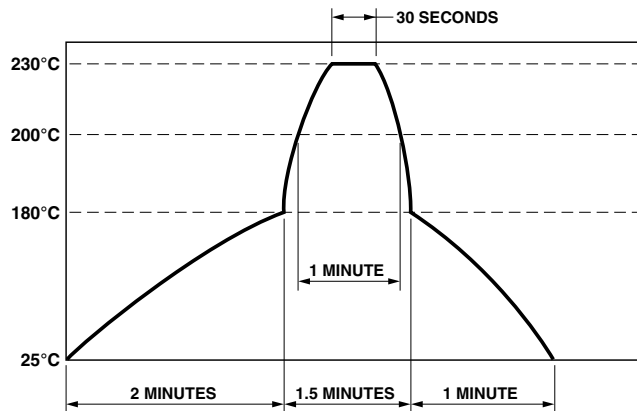


Figure 5. Maximum solder reflow thermal profile for 4-pin 300 mil and 6-pin 300 mil packages.

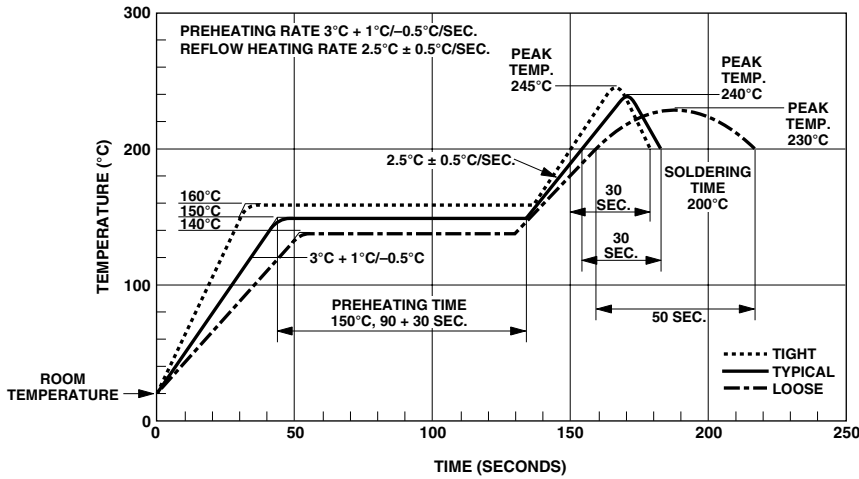
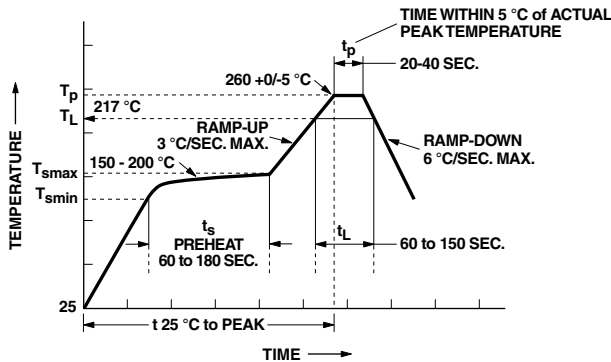


Figure 6. Maximum solder reflow thermal profile for 8-pin 300 mil and 8-pin 400 mil packages.

Notes:

- 1) Dimensions in mm (inches).
Tolerances: xx.xx = .01
 xx.xxx = .001
(unless otherwise specified).
- 2) Lead coplanarity for Option 300 product is 0.10 mm (0.004").
- 3) Lead coplanarity definition:
The maximum distance between the lowest and the highest pin when the package rests on a perfectly flat surface.

Recommended Pb-Free IR Profile



NOTES:
THE TIME FROM 25 °C to PEAK TEMPERATURE = 8 MINUTES MAX.
T_{smax} = 200 °C, T_{smin} = 150 °C

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Data subject to change.

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Obsoletes 5989-0297EN

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