

# Optocoupler Option 020 for 5000 V rms/1 Minute Requirement

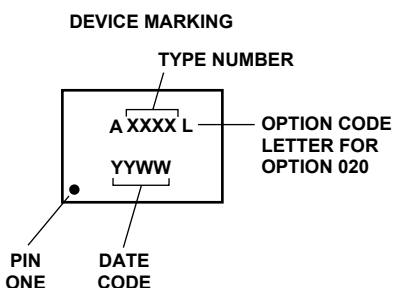


## Data Sheet

### OPTION 020

#### Description

Option 020 consists of special construction on a wide range of Avago plastic optocouplers. After assembly, each unit is subjected to an equivalent electrical performance test to ensure its capability to withstand 5000 V rms input to output for one minute. This test is recognized by Underwriters Laboratory as proof that these components may be used in many high voltage applications.



#### Features

- Special Construction and Testing
- UL Recognition for 5000 V rms/1 Minute Requirement (File No. E55361)

#### Applications

Dielectric withstand voltage ratings are required by Underwriters Laboratory when components are used in certain types of electronic equipment. The voltage rating depends on the type of electronic equipment and the specific application within the equipment. The 5000 V rms/1 Minute dielectric withstand voltage rating provided by Option 020 offers excellent high voltage input to output protection. Some applicable UL documents are listed below.

| UL Spec Number | Specification Title                                                      |
|----------------|--------------------------------------------------------------------------|
| 114            | Appliance and Business Equipment                                         |
| 347            | High Voltage Industrial Control Equipment                                |
| 508            | Industrial Control Equipment                                             |
| 544            | Medical and Dental Equipment                                             |
| 773            | Plug-in, Locking Type Photocontrols                                      |
| 916            | Standard for Energy Management Equipment                                 |
| 1012           | Power Supplies                                                           |
| 1244           | Electrical and Electronic Measuring and Testing Equipment                |
| 1410           | Television and Video Products                                            |
| 1950           | Information Technology Equipment Including Electrical Business Equipment |

## Specifications

All specifications for optocouplers remain unchanged when this option is ordered. The 5000 Vrms/1 Minute capability is validated by a factory 6200 VAC/1 Second dielectric voltage withstand test.

## Ordering Information

To obtain this high voltage capability on plastic optocouplers order the standard part number and Option 020.

Examples:

6N135#020

HCPL-7710#020

This option may also be combined with option #300 (gullwing surface mount) or #500 (gullwing in tape & reel).

To obtain these combinations order option #320 or #520 respectively.

Examples:

6N135#320 (gullwing surface mount and 5000 VAC/1 min)

HCPL-2601#520 (gullwing surface mount and 5000 VAC/1 min) in tape & reel

This option is currently available on the following plastic optocouplers.

6N135/6

6N137

6N138/9

ACPL-772L

ACPL-K453, ACPL-P454, ACPL-W454

ACPL-P611, ACPL-W611

HCPL-2601/11

HCPL-260L/3L

HCPL-261A/N

HCPL-270L/3L

HCPL-2502/3

HCPL-2530/1/3

HCPL-2630/1, HCPL-263A/N, HCPL-4661

HCPL-2730/1

HCPL-4731

HCPL-4562

HCPL-4502/3/4/6, HCPL-4534

HCPL-4701

HCPL-7710/20/21/23

Contact your local Avago Sales Representative concerning availability of this option for optocouplers not listed.

For product information and a complete list of distributors, please go to our web site: [www.avagotech.com](http://www.avagotech.com)

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