

## Product Change Notice

Issue Date: 13 Jan 2011

**Change Type:**

Product specification upgrade

**Parts Affected:**

|           |           |           |
|-----------|-----------|-----------|
| ACPL-330J | HCPL-314J | HCPL-788J |
| ACPL-331J | HCPL-315J | QCPL-324J |
| ACPL-332J | ACPL-785J | QCPL-325J |
| ACPL-333J | ACPL-796J | QCPL-327J |
| HCPL-316J | HCPL-786J | QCPL-789J |

All associated options and specials will also be affected. See Appendix for full part number list.

**Description and Extent of Change:**

1. Maximum Working Insulation Voltage ( $V_{IORM}$ ) will be upgraded from  $891V_{peak}$  to  $1230V_{peak}$ .

| Maximum Working Insulation Voltage | Symbol     | Characteristic | Unit       |
|------------------------------------|------------|----------------|------------|
| Current Specification              | $V_{IORM}$ | 891            | $V_{peak}$ |
| New Specification                  | $V_{IORM}$ | 1230           | $V_{peak}$ |

2. Highest Allowable Overvoltage ( $V_{IOTM}$ ) will be upgraded from  $6000V_{peak}$  to  $8000V_{peak}$ .

| Highest Allowable Overvoltage | Symbol     | Characteristic | Unit       |
|-------------------------------|------------|----------------|------------|
| Current Specification         | $V_{IOTM}$ | 6000           | $V_{peak}$ |
| New Specification             | $V_{IOTM}$ | 8000           | $V_{peak}$ |

3. Input-Output Momentary Withstand Voltage ( $V_{ISO}$ ) will be upgraded from  $3750V_{RMS}$  to  $5000V_{RMS}$ .

| Input-Output Momentary Withstand Voltage | Symbol    | Min. | Units     | Test Conditions                    |
|--|-----------|------|-----------|------------------------------------|
| Current Specification                    | $V_{ISO}$ | 3750 | $V_{RMS}$ | RH<50%, t=1 min., $T_A=25^\circ C$ |
| New Specification                        | $V_{ISO}$ | 5000 | $V_{RMS}$ | RH<50%, t=1 min., $T_A=25^\circ C$ |

**Reasons for Change:**

These changes allow customers to benefit from the upgraded  $V_{IORM}$ ,  $V_{IOTM}$  and  $V_{ISO}$  for the affected parts.

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

No changes have been made to the product design and manufacturing process. Appropriate electrical characterization and reliability qualification will be performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

**Effective Date of Change:**

Implementation of the change will be effective from product date code 1115 (yyww).

**Qualification Data:**

Qualification data has been generated and approved. Regulatory approvals from UL 1577 and DIN EN 60747-5-2 have been obtained.

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These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.

APPENDIX

| Part Description          | Affected Part Number |
|---------------------------|----------------------|
| Gate drive<br>Optocoupler | ACPL-330J-000E       |
|                           | ACPL-330J-500E       |
|                           | ACPL-331J-000E       |
|                           | ACPL-331J-000NE      |
|                           | ACPL-331J-500E       |
|                           | ACPL-331J-500NE      |
|                           | ACPL-332J-000E       |
|                           | ACPL-332J-000NE      |
|                           | ACPL-332J-500E       |
|                           | ACPL-332J-500NE      |
|                           | ACPL-333J-000E       |
|                           | ACPL-333J-500E       |
|                           | HCPL-316J            |
|                           | HCPL-316J#500        |
|                           | HCPL-316J-000E       |
|                           | HCPL-316J-000N       |
|                           | HCPL-316J-000NE      |
|                           | HCPL-316J-500E       |
|                           | HCPL-316J-500N       |
|                           | HCPL-316J-500NE      |
|                           | HCPL-316J-50GE       |
|                           | HCPL-316J-50GNE      |
|                           | HCPL-316J-50RE       |
|                           | HCPL-314J            |
|                           | HCPL-314J#500        |
|                           | HCPL-314J-000E       |
|                           | HCPL-314J-000N       |
|                           | HCPL-314J-000NE      |
|                           | HCPL-314J-500E       |
|                           | HCPL-314J-500N       |
|                           | HCPL-314J-500NE      |
|                           | HCPL-314J-50GE       |
|                           | HCPL-314J-50GNE      |
|                           | HCPL-314J-50RE       |
|                           | HCPL-315J            |
|                           | HCPL-315J#500        |
|                           | HCPL-315J-000E       |
|                           | HCPL-315J-000N       |
|                           | HCPL-315J-000NE      |
|                           | HCPL-315J-500E       |
|                           | HCPL-315J-500N       |
|                           | HCPL-315J-500NE      |

| Part Description                        | Affected Part Number |
|---|----------------------|
| Gate drive<br>Optocoupler               | QCPL-324J-500E       |
|   | QCPL-324J-500NE      |
|   | QCPL-325J-000E       |
|   | QCPL-325J-000NE      |
|   | QCPL-325J-500E       |
|   | QCPL-325J-500NE      |
|   | QCPL-327J-500E       |
| Miniature Analog<br>Isolation Amplifier | ACPL-785J-060E       |
|   | ACPL-785J-560E       |
|   | ACPL-785J-000E       |
|   | ACPL-785J-500E       |
|   | ACPL-796J-000E       |
|   | ACPL-796J-500E       |
|   | ACPL-796J-060E       |
|   | ACPL-796J-560E       |
|   | HCPL-786J            |
|   | HCPL-786J#500        |
|   | HCPL-786J-000E       |
|   | HCPL-786J-000N       |
|   | HCPL-786J-000NE      |
|   | HCPL-786J-500E       |
|   | HCPL-786J-500N       |
|   | HCPL-786J-500NE      |
|   | HCPL-786J-50RE       |
|   | HCPL-786J-50SE       |
|   | HCPL-788J            |
|   | HCPL-788J#500        |
|   | HCPL-788J-000E       |
|   | HCPL-788J-000N       |
|   | HCPL-788J-000NE      |
|   | HCPL-788J-500E       |
|   | HCPL-788J-500N       |
|   | HCPL-788J-500NE      |
|   | HCPL-788J-50RE       |
|   | QCPL-789J            |
|   | QCPL-789J#500        |
|   | QCPL-789J-000N       |
|   | QCPL-789J-500E       |
|   | QCPL-789J-500N       |
| QCPL-789J-500NE                         |                      |