

## Product Change Notice

Issue Date: 7 Apr 2010

**Change Type:**

Minor: (1) Product Specification Upgrade and (2) Merging of Part Numbers

**Parts Affected:**

1. Upgrade of  $V_{ISO}$  specification:

ACPL-Kxxx-x00E,	ACPL-Kxxx-x60E,	ACPL-Wxxx-x00E	ACPL-Wxxx-x60E
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2. Merging of part numbers:

ACPL-Kxxx-x20E	ACPL-Wxxx-x20E
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All special part numbers and associated options will also be affected. See Appendix for full part number list.

**Description and Extent of Change:**

1. Input-Output Momentary Withstand Voltage ( $V_{ISO}$ ) specification of part numbers ACPL-Kxxx-x00E, ACPL-Kxxx-x00E-x60E, ACPL-Wxxx-x00E and ACPL-Wxxx-x60E will be upgraded from 3750  $V_{RMS}$  to 5000  $V_{RMS}$ .

Input-Output Momentary Withstand Voltage	Symbol	Unit	Min.	Test Conditions
Existing Specification	$V_{ISO}$	$V_{RMS}$	3750	RH≤50%, t=1min, $T_A=25^{\circ}C$
Upgraded Specification	$V_{ISO}$	$V_{RMS}$	5000	RH≤50%, t=1min, $T_A=25^{\circ}C$

2. The part numbers ACPL-Kxxx-x20E and ACPL-Wxxx-x20E with default  $V_{ISO}$  at 5000  $V_{RMS}$  will merge into and become ACPL-Kxxx-x00E and ACPL-Wxxx-x00E respectively.

**Reasons for Change:**

This change allows customers to benefit from the upgraded  $V_{ISO}$  rating (at 5000  $V_{RMS}$ ) for -x00E and -x60E options

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

1. This specification upgrade for part numbers ACPL-Kxxx-x00E, ACPL-Kxxx-x00E-x60E, ACPL-Wxxx-x00E and ACPL-Wxxx-x60E has no effect on any other electrical specifications except increase of Input-Output Momentary Withstand Voltage ( $V_{ISO}$ ).

2. Part numbers after merging will not have "020" marking on the product.

**Effective Date of Change:**

Shipment of products under this change will begin after date code **1026**.

**Qualification Data:**

Regulatory approvals from UL 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

### 1. Upgrade of V<sub>ISO</sub> specification

Part Description	Affected Part Number	Part Description	Affected Part Number	Part Description	Affected Part Number
Gate drive optocoupler	ACPL-K312-000E	IPM optocoupler	ACPL-W454-000E	10MBd digital optocoupler	ACPL-W60L-000E
	ACPL-K312-060E		ACPL-W454-000NE		ACPL-W60L-000NE
	ACPL-K312-500E		ACPL-W454-060E		ACPL-W60L-500
	ACPL-K312-560E		ACPL-W454-500		ACPL-W60L-500E
Gate drive optocoupler	ACPL-W314-000E		ACPL-W454-500E		ACPL-W60L-500N
	ACPL-W314-000NE		ACPL-W454-500N		ACPL-W60L-500NE
	ACPL-W314-060E		ACPL-W454-500NE	ACPL-W60L-560E	
	ACPL-W314-060NE		ACPL-W454-560	ACPL-W60L-560NE	
	ACPL-W314-500E		ACPL-W454-560E	10MBd digital optocoupler	ACPL-W611-000E
	ACPL-W314-500NE		ACPL-W454-560N		ACPL-W611-000NE
	ACPL-W314-560E		ACPL-W454-560NE		ACPL-W611-060E
	ACPL-W314-560NE		ACPL-K453-000E		ACPL-W611-060NE
Gate drive optocoupler	ACPL-W302-000E	ACPL-K453-000NE	ACPL-W611-500E		
	ACPL-W302-000NE	ACPL-K453-500	ACPL-W611-500NE		
	ACPL-W302-060E	ACPL-K453-500E	ACPL-W611-560E		
	ACPL-W302-060NE	ACPL-K453-500N	ACPL-W611-560NE		
	ACPL-W302-500E	ACPL-K453-500NE	10MBd digital optocoupler	ACPL-K63L-000E	
	ACPL-W302-500NE	ACPL-K453-560E		ACPL-K63L-000NE	
	ACPL-W302-560E	ACPL-K453-560NE		ACPL-K63L-060E	
	ACPL-W302-560NE	ACPL-W456-000E		ACPL-K63L-500	
15MBd digital optocoupler	ACPL-K73L-000E	ACPL-W456-000NE		ACPL-K63L-500E	
	ACPL-K73L-060E	ACPL-W456-060E		ACPL-K63L-500N	
	ACPL-K73L-500E	ACPL-W456-060NE	ACPL-K63L-500NE		
	ACPL-K73L-560E	ACPL-W456-500E	ACPL-K63L-560E		
15MBd digital optocoupler	ACPL-W70L-000E	ACPL-W456-500NE	ACPL-K63L-560NE		
	ACPL-W70L-060E	ACPL-W456-560E	10MBd digital optocoupler	QCPL-W650-560E	
	ACPL-W70L-500E	ACPL-W456-560NE		QCPL-W650-560NE	
	ACPL-W70L-560E	IPM optocoupler	QCPL-W451-560E		
15MBd digital optocoupler	QCPL-K73H-000E				
	QCPL-K73H-060E				
	QCPL-K73H-500E				
	QCPL-K73H-560E				

### 2. Merging of part numbers

Part Description	Affected Part Number	Final Part Number (after merging)	Part Description	Affected Part Number	Final Part Number (after merging)
IPM optocoupler	ACPL-K453-020E	ACPL-K453-000E	10MBd digital optocoupler	ACPL-W611-020E	ACPL-W611-000E
	ACPL-K453-020NE	ACPL-K453-000NE		ACPL-W611-020NE	ACPL-W611-500E
	ACPL-K453-520E	ACPL-K453-500E		ACPL-W611-520E	ACPL-W611-500E
	ACPL-K453-520NE	ACPL-K453-500NE		ACPL-W611-520NE	ACPL-W611-500NE
IPM optocoupler	ACPL-W454-020E	ACPL-W454-000E	10MBd digital optocoupler	ACPL-K63L-020E	ACPL-K63L-000E
	ACPL-W454-520E	ACPL-W454-500E		ACPL-K63L-520E	ACPL-K63L-500E
IPM optocoupler	ACPL-W456-020E	ACPL-W456-000E		ACPL-K63L-520NE	ACPL-K63L-500NE
	ACPL-W456-520E	ACPL-W456-500E	10MBd digital optocoupler	ACPL-W60L-520E	ACPL-W60L-500E
15MBd digital optocoupler	ACPL-K73L-020E	ACPL-K73L-000E		ACPL-W60L-520NE	ACPL-W60L-500NE
	ACPL-K73L-520E	ACPL-K73L-500E			
15MBd digital optocoupler	ACPL-W70L-020E	ACPL-W70L-000E			
	ACPL-W70L-520E	ACPL-W70L-500E			
15MBd digital optocoupler	QCPL-K73H-020E	QCPL-K73H-000E			
	QCPL-K73H-520E	QCPL-K73H-500E			
15MBd digital optocoupler	QCPL-W70H-020E	QCPL-W70H-000E			
	QCPL-W70H-520E	QCPL-W70H-500E			