

## Product Change Notice

Issue Date: 04 DEC 2013

**Change Type:**

1. IC wafer size increase
2. Datasheet electrical specifications

**Parts Affected:**

HCPL-0720	HCPL-0721	HCPL-7720	HCPL-7721
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All associated options and specials will also be affected. See Appendix for full part number list.

**Description and Extent of Change:**

1. Subcontractor wafer fabrication transfers from 5-inch wafer fab to 8-inch wafer fab.
2. Adjusted electrical specifications (typical) are output supply currents  $I_{DD2L}$ ,  $I_{DD2H}$ , and propagation delay time  $t_{PHL}$ ,  $t_{PLH}$ .

**New specifications:**

Parameter	Symbol	Typ	Units	Test Conditions
Logic Low Output Supply Current	$I_{DD2L}$	7.7	mA	$V_I = 0\text{ V}$
Logic High Output Supply Current	$I_{DD2H}$	5.8	mA	$V_I = V_{DD1}$
Propagation Delay Time to Logic Low Output	$t_{PHL}$	23	ns	$C_L = 15\text{ pF CMOS}$ Signal Levels
Propagation Delay Time to Logic High Output	$t_{PLH}$	20	ns	

**Current specifications:**

Parameter	Symbol	Typ	Units	Test Conditions
Output Supply Current	$I_{DD2L}$	5.5	mA	
	$I_{DD2H}$	7.0	mA	
Propagation Delay Time to Logic Low Output	$t_{PHL}$	20	ns	$C_L = 15\text{ pF CMOS}$ Signal Levels
Propagation Delay Time to Logic High Output	$t_{PLH}$	23	ns	

**Reasons for Change:**

1. 5-inch wafer fabrication equipment obsolescence by IC wafer subcontractor.
2. The datasheet electrical specifications are adjusted to reflect the product and process true performance.

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

All other remaining electrical specifications, all fit, form, function remain the same. Appropriate electrical characterization and reliability qualification have been performed on representative products to insure normal parametric distribution, consistent electrical performance, and reliability.

**Effective Date of Change:**

Implementation of the change will be effective from product date code 1408 (YYWW).

Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

**Qualification Data:**

Qualification data has been generated and approved.

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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

Affected Part Number	Part Description
HCPL-7720	CMOS Optocoupler(25MBd)
HCPL-7720#060	CMOS Optocoupler(25MBd),VDE
HCPL-7720#300	CMOS Optocoupler(25MBd),SMD
HCPL-7720#360	CMOS Optocoupler(25MBd),SMD+VDE
HCPL-7720#500	CMOS Optocoupler(25MBd),T/R
HCPL-7720#560	CMOS Optocoupler(25MBd),T/R+VDE
HCPL-7720-000E	CMOS Optocoupler (25MBd), LF
HCPL-7720-000N	CMOS Optocoupler(25MBd)
HCPL-7720-000NE	CMOS Optocoupler (25MBd), LF
HCPL-7720-020	CMOS Optocoupler(25MBd), UL
HCPL-7720-020E	CMOS Optocoupler(25MBd), UL+LF
HCPL-7720-020N	CMOS Optocoupler(25MBd), UL
HCPL-7720-020NE	CMOS Optocoupler(25MBd), UL+LF
HCPL-7720-060E	CMOS Optocoupler (25MBd), IEC+LF
HCPL-7720-060N	CMOS Optocoupler(25MBd),VDE
HCPL-7720-060NE	CMOS Optocoupler (25MBd), IEC+LF
HCPL-7720-300E	CMOS Optocoupler (25MBd), SMD+LF
HCPL-7720-300N	CMOS Optocoupler(25MBd),SMD
HCPL-7720-300NE	CMOS Optocoupler (25MBd), SMD+LF
HCPL-7720-320	Optocoupler(25MBd),SMD+UL+LF
HCPL-7720-320E	Optocoupler (25MBd), SMD+UL+LF
HCPL-7720-320N	Optocoupler(25MBd),SMD+UL+LF
HCPL-7720-320NE	Optocoupler (25MBd), SMD+UL+LF
HCPL-7720-360E	CMOS Coupler(25MBd),SMD+IEC+LF
HCPL-7720-360N	CMOS Optocoupler(25MBd),SMD+VDE
HCPL-7720-360NE	CMOS Coupler(25MBd),SMD+IEC+LF
HCPL-7720-500E	CMOS Optocoupler(25MBd),T/R+LF
HCPL-7720-500N	CMOS Optocoupler(25MBd),T/R
HCPL-7720-500NE	CMOS Optocoupler(25MBd),T/R+LF
HCPL-7720-50GE	CMOS Optocoupler25MBd,TR,2XANL
HCPL-7720-50GNE	CMOS Optocoupler25MBd,TR,2XANL
HCPL-7720-520	CMOS Optocoupler(25MBd),T/R+UL+LF
HCPL-7720-520E	Optocoupler(25MBd),T/R+UL
HCPL-7720-520N	CMOS Optocoupler(25MBd),T/R+UL+LF
HCPL-7720-520NE	Optocoupler(25MBd),T/R+UL
HCPL-7720-560E	CMOS Optocoupler(25MBd),T/R+IEC+LF
HCPL-7720-560N	CMOS Optocoupler(25MBd),T/R+VDE
HCPL-7720-560NE	CMOS Optocoupler(25MBd),T/R+IEC+LF
HCPL-7720-56GE	CMOS Optocoupler25MBd,TR+IEC,2XANL
HCPL-7720-56GNE	CMOS Optocoupler25MBd,TR+IEC,2XANL
HCPL-7721	CMOS Optocoupler(25MBd)
HCPL-7721#060	CMOS Optocoupler(25MBd),VDE
HCPL-7721#300	CMOS Optocoupler(25MBd),SMD
HCPL-7721#360	CMOS Optocoupler(25MBd),SMD+VDE
HCPL-7721#500	CMOS Optocoupler(25MBd),T/R
HCPL-7721#560	CMOS Optocoupler(25MBd),T/R+VDE

HCPL-7721-000E	CMOS Optocoupler(25MBd),LF
HCPL-7721-000N	CMOS Optocoupler(25MBd)
HCPL-7721-000NE	CMOS Optocoupler(25MBd),LF
HCPL-7721-00GE	CMOS Optocoupler25MBd,2XANL
HCPL-7721-00GNE	CMOS Optocoupler25MBd,2XANL
HCPL-7721-020	CMOS Optocoupler(25MBd), UL
HCPL-7721-020E	CMOS Optocoupler(25MBd), UL+LF
HCPL-7721-020N	CMOS Optocoupler(25MBd), UL
HCPL-7721-020NE	CMOS Optocoupler(25MBd), UL+LF
HCPL-7721-060E	Optocoupler (25MBd), IEC+LF
HCPL-7721-060N	CMOS Optocoupler(25MBd),VDE
HCPL-7721-060NE	Optocoupler (25MBd), IEC+LF
HCPL-7721-300E	CMOS Optocoupler (25MBd), SMD+LF
HCPL-7721-300N	CMOS Optocoupler(25MBd),SMD
HCPL-7721-300NE	CMOS Optocoupler (25MBd), SMD+LF
HCPL-7721-320	Optocoupler(25MBd),SMD+UL
HCPL-7721-320E	Optocoupler(25MBd),SMD+UL+LF
HCPL-7721-320N	Optocoupler(25MBd),SMD+UL
HCPL-7721-320NE	Optocoupler(25MBd),SMD+UL+LF
HCPL-7721-360E	CMOS Coupler(25MBd),SMD+IEC+LF
HCPL-7721-360N	CMOS Optocoupler(25MBd),SMD+VDE
HCPL-7721-360NE	CMOS Coupler(25MBd),SMD+IEC+LF
HCPL-7721-500E	CMOS Optocoupler(25MBd),T/R+LF
HCPL-7721-500N	CMOS Optocoupler(25MBd),T/R
HCPL-7721-500NE	CMOS Optocoupler(25MBd),T/R+LF
HCPL-7721-50GE	CMOS Optocoupler25MBd,TR,2XANL
HCPL-7721-50GNE	CMOS Optocoupler25MBd,TR,2XANL
HCPL-7721-50RE	CMOS Optocoupler(25MBd),T/R+LF
HCPL-7721-520	Optocoupler(25MBd),T/R+UL
HCPL-7721-520E	Optocoupler(25MBd),T/R+UL+LF
HCPL-7721-520N	Optocoupler(25MBd),T/R+UL
HCPL-7721-520NE	Optocoupler(25MBd),T/R+UL+LF
HCPL-7721-560E	CMOS Coupler(25MBd),IEC+T/R+LF
HCPL-7721-560N	CMOS Optocoupler(25MBd),T/R+VDE
HCPL-7721-560NE	CMOS Coupler(25MBd),IEC+T/R+LF
HCPL-7721-56RE	CMOS Coupler(25MBd),IEC+T/R+LF
HCPL-0720	CMOS Optocoupler(25MBd)
HCPL-0720#060	CMOS Optocoupler(25MBd),VDE
HCPL-0720#500	CMOS Optocoupler(25MBd),T/R
HCPL-0720#560	CMOS Optocoupler(25MBd),T/R+VDE
HCPL-0720-000E	CMOS Optocoupler(25MBd),LF
HCPL-0720-060E	CMOS Optocoupler (25MBd),IEC+LF
HCPL-0720-500E	CMOS Optocoupler(25MBd),T/R+LF
HCPL-0720-50GE	CMOS Optocoupler25MBd,TR,2XANL
HCPL-0720-560E	CMOS Optocoupler(25MBd),T/R+VDE+LF
HCPL-0721	CMOS Optocoupler(25MBd)
HCPL-0721#060	CMOS Optocoupler(25MBd),VDE
HCPL-0721#500	CMOS Optocoupler(25MBd),T/R

HCPL-0721#560	CMOS Optocoupler(25MBd),T/R+VDE
HCPL-0721-000E	CMOS Optocoupler(25MBd),LF
HCPL-0721-060E	CMOS Optocoupler(25MBd),IEC+LF
HCPL-0721-500E	CMOS Optocoupler(25MBd),T/R+LF
HCPL-0721-50FE	CMOS Optocoupler(25MBd),T/R+LF
HCPL-0721-50GE	CMOS Optocoupler 25MBd,TR+LF+2XANL

HCPL-0721-50RE	CMOS Optocoupler(25MBd),T/R+LF
HCPL-0721-50SE	CMOS Optocoupler(25MBd),T/R+LF+5RL
HCPL-0721-560E	CMOS Optocoupler(25MBd),T/R+VDE+LF
QCPL-7722	Plastic Optocoupler
QCPL-7722#560	Plastic Optocoupler
QCPL-7722-560E	Plastic Optocoupler,LF