

Product Change Notice

Issue Date: 24 FEB 2017

Change Type:

Datasheet upgrade

Parts Affected:

ACPL-W611	ACPL-P611	ACPL-M60L	ACPL-W60L	ACPL-K63L
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All associated options will also be affected. See Appendix for full part number list.

Description and Extent of Change:

- Upgrade of maximum operating temperature from 85°C to 100°C in the Absolute Maximum Ratings and Recommended Operating Conditions.

Upgraded specifications:

Parameter	Symbol	Min	Max	Units
Operating Temperature	T _A	-40	100	°C

Current specifications:

Parameter	Symbol	Min	Max	Units
Operating Temperature	T _A	-40	85	°C

- For affected parts ACPL-M60L/W60L/K63L, there is no change in the existing electrical and switching specifications up to 85°C, except the following new parameter values to be added for 3.3V specifications up to 100°C.

Additional specifications (V_{CC} = 3.3V):

Parameter	Symbol	Min	Max	Units	Conditions
Input Current, High Level	I _{FH}	6	15	mA	2.7V ≤ V _{CC} ≤ 3.6V
Input Threshold Current	I _{TH}	3.0	6.0	mA	V _{CC} = 3.3V, V _O = 0.6V, I _{OL} (Sinking) = 13 mA
Propagation Delay Time to High Output Level	t _{PLH}		95	ns	R _L = 350Ω, C _L = 15 pF
Propagation Delay Time to Low Output Level	t _{PHL}		90	ns	R _L = 350Ω, C _L = 15 pF
Pulse Width Distortion	t _{PHL} - t _{PLH}		30	ns	R _L = 350Ω, C _L = 15 pF

Reasons for Change:

The change is to reflect the device's true electrical performance.

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

No change in the existing specifications for operating up to 85°C. For affected parts ACPL-M60L/W60L/K63L, there is addition of specifications for operating up to 100°C, V_{CC} = 3.3V. No change in fit, form and function. No change requires in customer's existing application.

Effective Date of Change:

Implementation of the change will be effective from the issue date of this product change notice.

Qualification Data:

Regulatory standards revision is pending for approval. Product datasheets to revise from this change notice issue date.

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

Please contact your Broadcom Limited field sales 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
ACPL-K63L-000E	Optocoupler(15MBd,3.3V),LF
ACPL-K63L-000ME	Optocoupler(15MBd,3.3V),LF
ACPL-K63L-060E	Optocoupler(15MBd,3.3V),LF
ACPL-K63L-500	Optocoupler(15MBd,3.3V),T/R
ACPL-K63L-500E	Optocoupler(15MBd,3.3V),T/R+LF
ACPL-K63L-560E	Optocoupler(15MBd,3.3V),T/R+VDE+LF
ACPL-M60L-000E	Optocoupler(15MBd,3.3V),LF
ACPL-M60L-000ME	Optocoupler(15MBd,3.3V),LF
ACPL-M60L-500E	Optocoupler(15MBd,3.3V),LF+T/R
ACPL-M60L-500ME	Optocoupler(15MBd,3.3V),LF+T/R
ACPL-M60L-560E	Optocoupler(15MBd,3.3V),LF+VDE+T/R
ACPL-M60L-560ME	Optocoupler(15MBd,3.3V),LF+VDE+T/R
ACPL-P611-000E	Optocoupler(10MBd),LF
ACPL-P611-020E	Optocoupler(10MBd),LF+UL
ACPL-P611-060E	Optocoupler(10MBd),LF+VDE
ACPL-P611-500E	Optocoupler(10MBd),LF+T/R
ACPL-P611-520E	Optocoupler(10MBd),LF+UL+T/R
ACPL-P611-560E	Optocoupler(10MBd),LF+T/R+VDE
ACPL-P611-560ME	Optocoupler(10MBd),LF+T/R+VDE
ACPL-W60L-000E	Optocoupler(15MBd,3.3V),LF
ACPL-W60L-500	Optocoupler(15MBd,3.3V),T/R
ACPL-W60L-500E	Optocoupler(15MBd,3.3V),T/R+LF
ACPL-W60L-500ME	Optocoupler(15MBd,3.3V),T/R+LF
ACPL-W60L-560E	Optocoupler(15MBd,3.3V),T/R+VDE+LF
ACPL-W60L-560ME	Optocoupler(15MBd,3.3V),T/R+VDE+LF
ACPL-W611-000E	Optocoupler(10MBd),LF
ACPL-W611-060E	Optocoupler(10MBd),LF+VDE
ACPL-W611-500E	Optocoupler(10MBd),LF+T/R
ACPL-W611-500ME	Optocoupler(10MBd),LF+T/R
ACPL-W611-560E	Optocoupler(10MBd),LF+T/R+VDE
ACPL-W611-560ME	Optocoupler(10MBd),LF+T/R+VDE