

Monday, 5<sup>th</sup> October 2009

## PRODUCT CHANGE NOTIFICATION

Due to new materials and new developments, some part numbers will be phased out by Kingbright. Please note the changes below when promoting parts for *new* opportunities only. For existing cases Kingbright will continue to maintain support for the original part numbers for as long as customers requires.

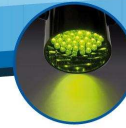
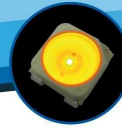
### 1. InGaN Chips

For new cases requiring InGaN blue and green LEDs please promote the QB and ZG chips instead of PB and VG chips. These new chips offer equal brightness at lower cost. For example, the QB-K chip is the least expensive blue option Kingbright have ever offered.

The latest QB chips have improved ESD resistance compared to previous versions, and the chip suppliers provide Kingbright with patent protection for Europe.

We suggest the following alternatives:

Series	Colour	Cree Chip	Suggested Alternative
SMD-LEDs KP series	● Blue	PB-A	QB-K, QB-D
		PB-G	QB-F
		PB-Z	QB-G, QB-H
	● Green	VG-A	ZG
		VG-E	ZG-E
		VG-Z	ZG-G, ZG-H
SMD-LEDs KA series	● Blue	PB-A	QB-K, QB-D
		PB-G	QB-F
		PB-Z	QB-G, QB-H
	● Green	VG-A	ZG
		VG-E	ZG-E
		VG-Z	ZG-G, ZG-H
Through-hole LEDs	● Blue	PB-A	QB-K, QB-D
		PB-G	QB-F
		PB-Z	QB-G, QB-H
	● Green	VG-A	ZG
		VG-E	ZG-E
		VG-Z	ZG-G, ZG-H



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## 2. KPK Series

KPK parts have reflectors that must be glued to the PCB by hand which causes high cost and inconsistent quality. KPK parts are only 1% of the production volume at Kingbright but quality issues have caused many problems. Therefore Kingbright will no longer promote any KPK parts for new designs. Kingbright will continue to produce KPK parts only for the support of existing designs. Please see the attached list "KPK, KA, KP cross.pdf" for the suggested KA and KP equivalents for KPK parts in new design promotions.

Best regards

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