

PM3315-WB**Change of Order Code****Change of Functional and Performance Parameters****Change of Breakdown Voltage Classification****PCN Overview**

PCN Affected Products	PM3315-WB SiPM Previous version of the product is related to PM3315-WB-B0, new revision of the product is PM3315-WB-C0
PCN Original Issue Date	August 1, 2019
Type of Change Notification	Product datasheet
Expected First Ship Date	September 1, 2019
Last Date to Buy Pre-Change Product	As long as stock lasts
Reference Documents	PM3315-WB-B0 and PM3315-WB-C0 datasheets

Reason for PCN

Due to improvements in the SiPM chip technology there is a change in the SiPM functional parameters. The package and physical dimensions remain unchanged.

Due to improvements in the breakdown voltage classification there is a change in specification of the breakdown voltage.

Product Change Summary

Following table lists only the differences between the previous PM3315-WB-B0 and the new revision PM3315-WB-C0.

Parameters not listed here remain unchanged.

Parameter	PM3315-WB-B0	PM3315-WB-C0
Breakdown Voltage (V) at 21°C	min. 26.6, max. 27.2 (typ. 26.9)	min. 26.0, max. 28.0
Breakdown Voltage Variation per Reel (V)	±0.30	±0.125
Crosstalk Probability (%)	7 @ 2.5 V V_{OV} 20 @ 5.0 V V_{OV}	8 @ 2.5 V V_{OV} 18 @ 5.0 V V_{OV}
Terminal Capacitance (pF)	750	800
Afterpulsing Probability (%)	<1	1 @ 2.5 V V_{OV} 5 @ 5.0 V V_{OV}



Product Change Notification

KETEK-PCN-SiPM-2019-08

August 1, 2019

SiPM – Silicon Photomultiplier



Recovery Time (ps)	13	13 (at 1 Ω load) 47 (at 50 Ω load)
Signal Rise Time (ps)	< 1000	630

Customer Impact

Customers who have used PM3315-WB-B0 in their design do not need to change anything regarding PCB design or footprint, as the package remains unchanged.

Regarding the operation of the new revision PM3315-WB-C0, the change in the classification of the breakdown voltage is beneficial for all customers since it provides a narrower specification with less gain variation (max. 5% at 5 V V_{OV}) from SiPM to SiPM when using the same operating voltage for multiple SiPMs.

The improvement in crosstalk probability for the new revision PM3315-WB-C0 is beneficial for all applications.

The increase in afterpulsing propability is typically negligible for most applications.

All other values have been more precisely specified but are in fact unchanged from revision PM3315-WB-B0 to the new revision PM3315-WB-C0.

Additional Information

All datasheets with full specification of PM3315-WB-B0 and PM3315-WB-C0 are available at www.ketek.net/sipm-downloads

The documentation for PM3315-WB-B0 is available in the category “Discontinued Products”.