

PRODUCT CHANGE NOTICE



PCN #	013329	Initiator	Matthew Harris	Date	2018-08-08
PCN Title	XK-VF3100-C43 component change				

LEVEL OF CHANGE

- Customer Approval Customer Information

CHANGE AFFECTS

- Material Change Process Change
 Design Change Package Change
 Datasheet Change Others, please specify:

DESCRIPTION OF CHANGE:

The VocalFusion™ Speaker: Circular Array (XK-VF3100-C43) kit has been updated to use the Infineon MEMS microphone IM69D130, taking advantage of the improved SNR performance and bringing this development kit into line with other XMOS microphone array kits. Additionally, the previously used Knowles microphone SPH1668LM4H-1 is end of life and not recommended for new designs.

This change is effective immediately.

ANTICIPATED IMPACT:

There is no change to the method of operation for this kit. The signal-to-noise ratio for the IM69D130 is 69dB compared to 65.5dB for the SPH1668LM4H-1, which could produce higher quality audio. However, the IM69D130 has a sensitivity of -36dBFS compared to -29dBFS for the SPH1668LM4H-1, therefore the updated board will generate output at a lower level. Any software that relies on microphone sensitivity may need re-tuning and/or gain applying.

XMOS PART NUMBERS AFFECTED:

XK-VF3100-C43

CUSTOMER PART NUMBERS AFFECTED (if applicable):

n/a

IDENTIFICATION OF CHANGED PRODUCT (if applicable):

Kits affected by this change will have a date code (on the base board) of 1826 or greater. Additionally, the version number of the circular daughterboard for boards affected by this change is 2V0.

Questions regarding this PCN should be addressed to sales@xmos.com