

Engineering Department

Engineering Change Order (ECO)

ECO #: ECO-70041 **Effective Date:** January 23, 2017

Title: Replacing obsolete Ceramic Crystal used on MSS Motor Controller PCB

Author: GD	Date: January 23, 2017
Engineering Approval: AEG	Date: February 1, 2017
Operations Approval: aeg	Date: April 1, 2017

Summary:

The Ceramic Crystal used on MSS motor controller PCB has become obsolete. This ECO addresses the implementation of replacement Ceramic Crystal.

Parts Affected:

Part Number	Notes	Removed	Added	New	Modified
CX3225GA16000D0PTVZ1	Crystals 16000kHz 8pF AEC-Q200	☐	☐	☐	☒

Detail:

The motor controller electronics uses 16 MHz crystal to generate the clock signal for the on board microcontroller. The specific crystal Part Number used for this purpose has become obsolete (Crystals 16000kHz 8pF AEC-Q200 by AVX) and the motor controller PCB BOM has to be updated with the new placement ([CX3225GA16000D0PTVCC](#) by AVX).

The only difference is the that the new part number comes in standardized packaging count. It is essentially the same component.

Action Item:

Action	Department	Acknowledgement Initials
Updated PCB BOM with CX3225GA16000D0PTVZ1 to reflect the updated part number (CX3225GA16000D0PTVCC)	Engineering	GD
Update Published product folder	Engineering	AEG

Modified / Referenced Documents:

Document	Current Revision
Datasheet for BL4850	

Revision Table:

Revision	Initials	Date	Comments
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