

CHANGE COMMUNICATION

TRACKING #	20200407-1	TYPE OF CHANGE	Informa Only	tion	DATE OF PCN	4/16/2020		
CHANGE NAME	Core Board Solder Mask change from Electra to Taiyo							
DETAILS OF CHAN	DETAILS OF CHANGE							
Luminus Core Board Manufacturer is changing the solder mask manufacturer as follows:								
From			То					
Electra EMP-110			Taiyo America PSR-4000 MP Series					
The Taiyo America solder mask properties are comparable or better compared to the Electra solder mask. The Taiyo solder mask meet IPC-SM-840, Qualification and Performance Specification of Permanent Solder Mask and Flexible Cover Materials, Class H for Military/High Reliability Applications								
REASON FOR CHA	NGE							
Minor change implemented by supplier of Metal Core Board								
AFFECTED PRODU	CT LIST [final digit	s for bin kit inte	entionally om	tted]				
CBT-90-W65S-C11			CBM-40	CBM-40-UV-X32				
CBT-90-W57S-C11			CBM-80-UV-X31					
CBT-90-W57H-C11			CBM-120-UV-X31					
CBT-90-B-L11			CBT-39-UV-C32					
CBT-90-RX-Lxx			CBT-90-UV-L11					
CBT-90-G-L11			CBM-90-IRD-X33					
CFT-90-CG-L11			CBM-120-FR-C15					
CBT-90-CG-L11			PT-40-RAX-Lxx					
CBT-90-A-Lxx			PT-54-RAX-L35					
CBT-140-WCS-L16			PT-39-B-L21					
CBT-140-WDH-L16			PT-39-G-L21					
PT-121-B-L11			PT-120-B-L11					
PT-121-RAX-L15	PT-121-RAX-L15			PT-120-RAX-L15				



PT-121-G-L11	PT-120-G-L11						
ANTICIPATED IMPACT ON FORM FIT, FUNCTION, QUALITY OR RELIABILITY							
This change does not impact form, fit, function, quality c	or reliability.						
 The solder mask has no active electrical or optical function in the product. Its function is isolation of areas with solder from those that do not. This function is critical for boards with a high population of component pads that are close to each other that run the risk of solder bleed and shorting of those pads. The Luminus design does not have these features in the design. It also protects the metal plated areas from oxidation or exposure to subsequent manufacturing environments. The Luminus requirement of maximum allowed 1 mm missing solder over metal which is tighter than IPC 6012 prevents the exposure of large areas of metal. REACH and ROHS compliance have been met for the new solder mask. 							
The new solder mask remains unchanged per IPC standards regarding material and dimensional characteristics. (IPC-SM-840 Class H, Bellcore GR-78-CORE Issue 1, and have a UL flammability rating of 94 V-0.).							
Sample Diagram and Photo of Core Board:							
Mounting Hole Reference Hole Control of the second							



SCHEDULE OF ACTIONS FOR TAIYO AMERICA PSR-4000 MP SERIES								
Actions	Status		Result					
Vendor Qualification	Done		Passed IPC –SM-8340 Class H					
Luminus Visual Inspection	Done		Passed IPC-A-610 and IPC 6012					
Luminus Test	Done		Passed Luminus Test specifications					
DATE OF AVAILABILITY OF Q	UALIFICATION DATA	N/A						
DATE OF AVAILABILITY OF Q	UALIFICATION SAMPLES	N/A						
METHOD OF IDENTIFYING CH	IANGED PRODUCT	The new solder mask will be traceable by datecode/serial number.						