



8755 W. Higgins Road Suite 500
Chicago, Illinois USA 60631

April 17th 2020

RE: LFPCN41349 **Pre-PCN** Littelfuse High Voltage TPSMBxx and TPSMCxx BCP and capacity extension

To our valued customers

To serve our customers' continuous growth, Littelfuse would like to inform you this Business Continuous Plan of **High Voltage** TPSMB and TPSMC Automotive TVS products, meanwhile to expand the capacity with improved automation and quality system.

This BCP will introduce the 2nd sources below to build up our robust supply chain, and the new additional capacity to support the long term growth of our automotive customers for the developing electrification.

1. Change Description

TPSMB ¹

Change Description		Before	After	Benefits
Fab	Wafer	Raw wafer Vendor: Siltronic	1. Raw wafer Vendor: Siltronic 2.Raw wafer Vendor: Huan Ou	BCP
BE	Manufacturing Line	Existing line	Existing line & New line	Capacity extension
	Lead Frame & Clip Vendor	L/F Vendor: JIH Long Clip vendor: G-Shank	L/F & Clip vendor: 1.JIH Long 2. G-Shank	BCP
	Solder Paste	Heraeus F367SN10-90P4	1. Heraeus FS5116 2.Indium 9.32	BCP
	EMC	EME-G630AY Vendor: Sumitomo	1.EME-G630AYD Vendor: Sumitomo 2.EME-E500HME Vendor: Sumikon	BCP
	Plating Source	1.Bandl (Suzhou) 2. Suyang (Wuxi)	1.Bandl (Suzhou) 2. Suyang (Wuxi) 3. Littelfuse inhouse (Wuxi)	BCP

Note 1: PNs with VBR≥600V are released in new lines and only affected by wafer, solder paste and plating source change.



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TPSMC

Change Description		Before	After	Benefits
Fab	Wafer	Raw wafer Vendor: Siltronic	1.Raw wafer Vendor: Siltronic 2.Raw wafer Vendor: Huan Ou	BCP
BE	Manufacturing Line	Existing line	Existing line & New lines	Capacity extension
	Lead Frame & Clip Vendor	L/F Vendor: Kenly Clip vendor: G- Shank	L/F & Clip vendor: 1.SDI 2.G-Shank	BCP
	Solder Paste	Heraeus F367SN10-90P4	1. Heraeus FS5116 2.Indium 9.32	BCP
	EMC	EME-G720C Vendor: Sumitomo	1.EME-G720C Vendor: Sumitomo 2.EME-E500HME Vendor: Sumikon	BCP
	Plating Source	1.Bandl (Suzhou) 2. Suyang (Wuxi)	1.Bandl (Suzhou) 2. Suyang (Wuxi) 3.Littelfuse inhouse (Wuxi)	BCP

All the changes will be qualified to AECQ101 with IATF16949 certified production line, and with no FIT/Form/Function change. Enclosed is our qualification plan for your review.

We will provide qualification report and PCN in **Q4 2020**, and implement the PCN in **Q3 2021**. The exact implement date will be announced in final PCN of Q4 2020. Also the impacted PNs are all listed as appendix in the end of qualification plan.

This **pre-PCN** letter is for your information and acknowledgement. If you would request for any specific data or product samples to certify this change, please contact Littelfuse® within 60 days of the notification date.

If you have any other questions or concerns, please contact your Littelfuse® local sales.



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We value your business and look forward to assisting you whenever possible.

Best Regards,
Charlie Cai
Product Manager Automotive and Hi-Rel TVS