

Product Change Notification (PCN)



N° LFPCN220919

Date: September 19th, 2022

Subject: *PCN for Y1 Power Modules Inhouse Assembly Location Transfer
MCC/MCD/MDD/MCMA/MDMA/MDNA types only (Refer to the list
of affected parts in page 4)*

Dear Valued Customer,

Littelfuse would like to notify you about the transfer of the backend manufacturing of some of our Y1 package parts to our inhouse assembly factory in Lipa, Philippines.

This new Littelfuse facility combines the very best operational excellence and semiconductor expertise to deliver a highly automated, world class facility designed, to meet IATF16949 & VDA6.3 requirements. Our clear focus being to bring high levels of service to our customers and quality products to support future growth of the power semiconductor business.

Please find enclosed all details related to this PCN.

Important information for your attention and according to JEDEC STANDARD "JESD46":

- Please acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information.
- Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days from the date of this PCN. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of change.

Your prompt reply will help Littelfuse to assure a smooth and well executed transition. Your attention and response to this matter is greatly appreciated.

Thank you very much.

Best Regards,

Pascal Ducluzeau
Product Marketing Manager
Medium Power Modules
pducluzeau@littelfuse.com

Contact Information:	Contact your local Littelfuse Sales Partner or Pascal Ducluzeau.
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SUBJECT OF CHANGE:	Y1 Bipolar Power Modules Inhouse Backend Assembly Location Transfer
PRODUCTS AFFECTED:	See page 4
REASON OF CHANGE:	State-of-the-art power semiconductor assembly capabilities to dramatically improve service levels to customers. Our target is to set this factory as a world class facility with automated, error proof processes to meet the highest quality standards.

DESCRIPTION OF CHANGE:	ACTUAL SITE	TRANSFERRED SITE – LIPA, Phil.
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■ Marking (on parts)

<ul style="list-style-type: none"> Company Logo 	Ixys Logo 	Littelfuse IXYS Logo 																								
<ul style="list-style-type: none"> UL Logo 	YES - NO CHANGE																									
<ul style="list-style-type: none"> Electrical Draw. + pin out 	YES - NO CHANGE																									
<ul style="list-style-type: none"> Date code + Site Assy code 	YYWWG	YYWWM																								
<ul style="list-style-type: none"> Catalog Part Number 	YES - NO CHANGE																									
<ul style="list-style-type: none"> Lot Number 	6 digit = xxxxxx Lot sequential number (000001 – 999999)	8 digit = YYMDDxxx YY= 2 last digit of the year, M = Month (A=Jan, L=Dec), DD = Day, xxx = Lot sequential (001-999) reset to 001 every day																								
<ul style="list-style-type: none"> 2D Matrix 	36 characters <table border="1"> <tr><td>1st to 19th digit</td><td>Official product part number</td></tr> <tr><td>20th to 23rd digit</td><td>Date Code (YYWW)</td></tr> <tr><td>24th to 25th digit</td><td>Assembly line</td></tr> <tr><td>26th to 31st digit</td><td>Lot number</td></tr> <tr><td>32nd digit</td><td>Split lot / extra digit for future reference</td></tr> <tr><td>33rd to 36th digit</td><td>Individual module number within one lot</td></tr> </table>	1st to 19th digit	Official product part number	20th to 23rd digit	Date Code (YYWW)	24th to 25th digit	Assembly line	26th to 31st digit	Lot number	32nd digit	Split lot / extra digit for future reference	33rd to 36th digit	Individual module number within one lot	49 characters <table border="1"> <tr><td>1st to 25th digit</td><td>Official product part number</td></tr> <tr><td>26th to 31st digit</td><td>Date code (YYWW)</td></tr> <tr><td>32nd to 33rd digit</td><td>Assembly Line</td></tr> <tr><td>34th to 43rd digit</td><td>Lot Number</td></tr> <tr><td>44th digit</td><td>Extra digit for future reference</td></tr> <tr><td>45th to 49th digit</td><td>Individual Module number within one lot</td></tr> </table>	1st to 25th digit	Official product part number	26th to 31st digit	Date code (YYWW)	32nd to 33rd digit	Assembly Line	34th to 43rd digit	Lot Number	44th digit	Extra digit for future reference	45th to 49th digit	Individual Module number within one lot
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■ Labelling (on packing)

<ul style="list-style-type: none"> Inner Box 		
<ul style="list-style-type: none"> 2D Sequence 	Product Code - Type - Date Code - Lot No. - Qty – Label	Type – Date Code – Lot No. – Qty – Label
<ul style="list-style-type: none"> Master/Outer Box 	NO CHANGE	
<ul style="list-style-type: none"> Bill of material 	NO CHANGE	
<ul style="list-style-type: none"> Electrical characteristics 	Electrical characteristics of qualification site matched to current production site	
<ul style="list-style-type: none"> Mechanical characteristics 	Mechanical characteristics of qualification site matched to current production site	

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RELIABILITY DATA SUMMARY:

- **Qualification done on module part structurally representative to the whole Y1 Bipolar modules package family excluding MCO/MDO and MCMA650MT1x00NKD types.**
- The acceptance defining criteria for type tests of this product family are detailed in: IEC 60747-6 Edition 3.0, clause 7.5.5, table 10

Results:	Test	Description	Conditions	Standard Use	# Lots	Qty/Lot	Result
MCC312-16io1							
1	HTRB	High Temp. Rev. Bias	1000hr., 125°C, 1120 V AC	IEC 60749-23	1	30	Passed
2	Humidity	High Temp. High Humidity Bias	1000hr., 85% rH., 85°C	IEC 60749-42	1	30	Passed
3	P/C	Power Cycling	20 000 cycles, dT=80K	IEC 60749-34	1	30	Passed
4	ITSM	Surge Current	Datasheet		1	30	Passed

TIME SCHEDULE:

- Parts availability: *Week of October 03rd, 2022 (Week 40/2022)*
- Production ramp-up: *October 20th, 2022 (Week 42/2022)*
- Last Shipment: *Till week 50/2022 from the actual back-end site*
- Last time buy: *N/A - Any new orders will be processed through the new back-end site*



ASSESSMENT:

- No influence in terms fit, form and function.
- No part number change.
- Data sheets remain unchanged.
- LF Qualification report available by Sept 30th

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LIST OF AFFECTED Y1 BIPOLAR MODULES (See Note below):

1	MCC224-20IO1	26	MCD312-12IO1
2	MCC224-22IO1	27	MCD312-14IO1
3	MCC224-24IO1	28	MCD312-16IO1
4	MCC225-12IO1	29	MCD312-16IO1-PCM
5	MCC225-14IO1	30	MCD312-18IO1
6	MCC225-16IO1	31	MCMA265P1600KA
7	MCC225-18IO1	32	MCMA265PD1600KB
8	MCC255-12IO1	33	MDD175-28N1
9	MCC255-14IO1	34	MDD175-34N1
10	MCC255-16IO1	35	MDD255-12N1
11	MCC255-18IO1	36	MDD255-14N1
12	MCC312-12IO1	37	MDD255-16N1
13	MCC312-14IO1	38	MDD255-18N1
14	MCC312-16IO1	39	MDD255-20N1
15	MCC312-18IO1	40	MDD255-22N1
16	MCD224-20IO1	41	MDD312-12N1
17	MCD224-22IO1	42	MDD312-14N1
18	MCD225-12IO1	43	MDD312-16N1
19	MCD225-14IO1	44	MDD312-18N1
20	MCD225-16IO1	45	MDD312-20N1
21	MCD225-18IO1	46	MDD312-22N1
22	MCD255-12IO1	47	MDD312-22N1-PCM
23	MCD255-14IO1	48	MDMA380P1600KC
24	MCD255-16IO1	49	MDNA380P2200KC
25	MCD255-18IO1		

NOTE: MCO, MDO and MCMA650 type modules are not part of this PCN. Another PCN file will be edited in a second step when associated products family qualification will be completed.

Customer information:

Forward-looking statements are intended to provide information about our expected future operations. These statements are not promises or guarantees, particularly with respect to any timelines provided in the schedule. All terms of delivery and rights to technical changes are subject to alteration by Littelfuse.