

**N° LFPCN230526** 

Date: May 26th, 2023

**Subject:** PCN for ComPack Power Modules Inhouse Assembly Location

**Transfer MCMA/MCNA/MDMA/MDNA types** (Refer to the list of

affected parts in page 4)

#### **Dear Valued Customer,**

After the successful relocation of our TO-240, Y4, Y1, Y2 and FO-A product families in 2020, 2021, 2022 and 2023 Littelfuse would like to notify you about the transfer of the backend manufacturing of our MCMA/MCNA/MDMA/MDNA ComPack 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,

Mirko Vogelmann Product Manager, Power Modules mvogelmann@littelfuse.com

Contact Information:	Contact your local Littelfuse Sales Partner or Mirko Vogelmann.	
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### **N° LFPCN230526**

Mechanical characteristics

SUBJECT OF CHANGE:	Compack Bipolar Power Modules – MCMA/MCNA/MDMA/MDNA types Inhouse Backend Assembly Location Transfer				
PRODUCTS AFFECTED:	See page 4				
——————————————————————————————————————		and the same bilitation has also substituted by the same and			
DEACON OF CHANCE.	-	sembly capabilities to dramatically improve			
REASON OF CHANGE:	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, Philippines			
Marking (on parts)					
Company Logo	IXYS Logo IIIXYS	Littelfuse IXYS Logo  A Littelfuse Technology			
UL Logo	YES - NC	NO CHANGE			
Electrical Draw. + pin out	YES - NC	) CHANGE			
Date code + Site Assy code	YYWWX	YYWWM			
Catalog Part Number	YES - NO CHANGE				
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			
2D Matrix	36 characters	every day 49 characters			
2D Matrix	1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	123 456789111111111222222222222333333334444444444			
	1st to 19th digit  Official product part number  20th to 23rd digit  Date Code (YYWW)  24th to 25th digit  Assembly line  25th to 31st digit  Lot number  32nd digit  Split lot f extra digit for future reference  33rd to 36th digit  Individual module number within one lot	1st to 25th digit Official product part number 26th to 31st digit Date code (YYWW) 32nt 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			
Labelling (on packing)					
• Inner Box	Type: MCMA700P1600CA	Type: McC162 - 14018  UF No: McC162 - 14018  Dec Code: 2009M  Box Label (for illustration purpose only)			
2D Sequence	Product Code - Type - Date Code - Lot No. - Qty - Label	Type – Date Code – Lot No. – Qty – Label			
Master/Outer Box					
·	ORDER NO. PART NO. OTY MADE IN WITHOUT PROJECT ON THE STATE OF THE STA				
	Apply to the	1000 (710-03) 1827-0 1816			
Bill of material	Box Label (for illustration purpose only)	Box Label (for illustration purpose only)  HANGE			

Mechanical characteristics of qualification site matched to current production site



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#### **RELIABILITY DATA SUMMARY:**

- Qualification done on module part MCMA700PD1600CB structurally representative to the whole ComPack Bipolar modules package family
- 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
MCMA700	OPD1600CB						
1	HTRB	High Temp. Rev. Bias	1000hr., 125°C, 1120 V AC	IEC 60749-23	1	10	Passed
2	Humidity	High Temp. High Humidity Bias	1000hr., 85% rH., 85°C	IEC 60749-42	1	10	Passed
3	ITSM	Surge Current	Datasheet		1	10	Passed

- For reason of production line closure, the ComPack package production related equipment and tooling have been transferred to the new production site.
- Product components and materials are unchanged.
- The production set-up has been supported closely by product and process responsible engineers
  of the original production line.
- Transferred production line was released after verification that inline process requirements are met.
- T/C and P/C tests will be done in parallel to the production ramp and were not considered gating for start of product shipments.

#### **TIME SCHEDULE:**

Parts availability: Starting from the week of May 26th, 2023 (Week 21/2023)

Production ramp-up Starting from the week of May 26th, 2023 (Week 21/2023)



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#### **ASSESSMENT:**

- No influence in terms fit, form and function.
- No part number change.
- Data sheets remain unchanged.
- LF Qualification report available by June 02<sup>th</sup>

### LIST OF AFFECTED ComPack BIPOLAR MODULES

1	MCMA1400E1600CD
2	MCMA700P1600CA
3	MCMA700P1600NCA
4	MCMA700P1800CA
5	MCMA700P1800CA-PC
6	MCMA700PD1600CB
7	MCMA700PD1600CB-PC
8	MCMA700PD1800CB
9	MCNA650P2200CA
10	MCNA650PD2200CB
11	MDMA1400C1600CC
12	MDMA700P1600CC
13	MDMA700P1800CC
14	MDNA700P2200CC

#### 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.