

Process Change Notification (PCN)

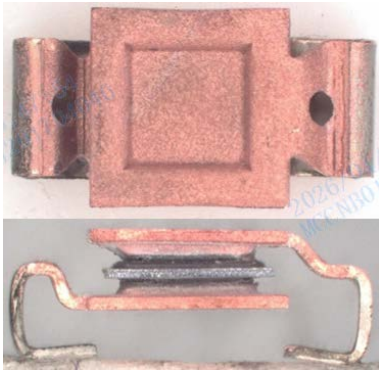
This Product Change Notification (PCN) is issued to inform customers of changes to the products listed below manufactured by Micro Commercial Components Corp. (MCC).

Notification number:	PCN-042826-1
PCN Title:	Upgraded to clip bonding, lead frame structure
Issue date:	4/28/2026
Proposed effective date:	7/28/2026
Product type affected:	Please refer to table 1
Change Category:	Structure Change
Change Sub-category(s):	Structure upgrade
Change Classification:	Major
Change description and reason:	To enhance the efficiency of production automation and product quality , MCC S5MB-TP will be upgraded to clip bonding, lead frame structure. Remark: Full electrical characterization and high reliability testing has been completed to ensure there is no change to device functionality or electrical specifications in the datasheet.
Deposition of old product:	Existing inventory will continue to ship until stock is depleted.
Identification of Changed product:	☐ Body Marking ☒ Lot code ☐ Datasheet Revision ☐ Labelling ☐ Reel/packaging identification ☐ Not Applicable ☐ Date Code
Contact Information:	Please contact your respective MCC Account Manager (AM) / Inside Sales Representative (ISR/CSR)
Approved by:	Seaman Wu (Director of Quality) TH Koay (Head of Product BU) Steve Zhang (Director of Supply Chain) Pamela Cheng (GM & EVP of Sales)

Table1: List of affected parts

No.	Affected Product (OPN)	Existing marking	New marking
1	S5MB-TP		No change

Table 2: Structure Comparison

Item	Existing Source	New Source
Structure Comparison		
Die information	No Change	

Reliability Data Summary:

Part Number: S5MB-TP

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
Pre and Post Stress Electrical Test	$T_A = 25\text{ }^{\circ}\text{C}$	N/A	All parts	Refer below
Pre-conditioning for MSL 1 (Note 1)	JESD22A-113 1. Temperature Cycling: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 2. Bake: 125°C 3. Moisture Soak: 85°C , 85%RH for MSL1 4. Reflow*3Cycles: 260°C	5 Cycles 24 hours 192 hours 3 Cycles	308 Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_J = T_J \text{ MAX}$, 80% V_R	1000 hours	77 Pcs	0
TC Temperature Cycling	JESD22-A104 $-55^{\circ}\text{C}(+0, -10) / 15\text{Min} \sim 125(+15, -0) / 15\text{Min}$	1000Cycles (500hours)	77 Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH = 100%, 15psig	96 hours	77 Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 $T_A = 85\text{ }^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH = 85% $\pm$ 5%, 80% V_R ($V_R \text{ MAX} = 100\text{V}$)	1000 hours	77 Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 $260^{\circ}\text{C} (+5, -0)$	30s	30 Pcs	0
SD Solderability	J-STD-002 $235^{\circ}\text{C} \pm 5^{\circ}\text{C}$	10s	10 Pcs	0

Note 1: Please refer to the product datasheet on the MCC website for detailed MSL information.

Date: 4/28/2026

PCN #: PCN- 042826-1

PCN Title: Upgraded to clip bonding, lead frame structure

Dear Customer,

This Product Change Notification (PCN) is issued to inform customers of changes affecting the above-mentioned product(s) offered by Micro Commercial Components Corp. (MCC).

Customers are requested to acknowledge receipt of this notification within **30 days** from the issue date of this PCN by contacting their local ISR/CSR or sales representative.

If product samples are required for evaluation purposes, please submit a corresponding request within 30 days of this notification.

If you have any questions, require clarification, or need additional support regarding this PCN, please contact your local Account Manager (AM), CSR, or ISR.

Yours sincerely,

MCC PCN Team