Process Change Notification (PCN)

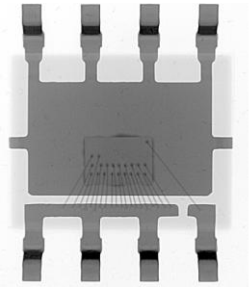
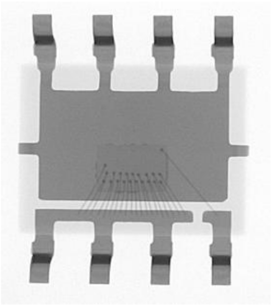
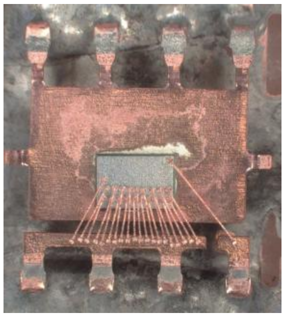
This Product Change Notification (PCN) is issued to inform customers of changes to the products listed below manufactured by Micro Commercial Components Corp. (MCC).

Notification number:	PCN-030626-1
PCN Title:	Additional new 2nd source
Issue date:	3/6/2026
Proposed effective date:	6/6/2026
Product type affected:	Please refer to table 1 in Appendix 1&table 1 in Appendix 2.
Change Category:	Wafer Fab Change
Change Sub-category(s):	Additional wafer source
Change Classification:	Major
Change description and reason:	An additional wafer source has been qualified to ensure business continuity. Full electrical characterization and high-reliability testing have been completed, with no changes to device marking or datasheet specifications.
Deposition of old product:	Existing inventory will continue to ship until stock is depleted.
Identification of Changed product:	☐Body Marking ☐Labelling ☐Date Code ☑Lot code ☐Reel/packaging identification ☐Datasheet Revision ☐Not Applicable
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)

Appendix 1: Table 1

List of affected products			
MCQ18N03-TP	MCACD6D5N03L-TP	MCG50N03-TP	MCU80N03A-TP
MCU50N06A-TP	MCAC10H03A-TP	MCQ16N03-TP	MCQ4406A-TP
MCQD12N03A-TP	MCM13N03-TP	MCG6D5N03L-TP	MCU50N03A-TP
MCAC50N03-TP	MCU80N03-TP	MCAC40N03A-TP	MCG30N03A-TP
MCGD25N04-TP	MCG35N04A-TP	MCU60N04A-TP	MCAC7D0N04L-TP
MCG20N04-TP	MCM012N04L-TP	MCQD05N06-TP	MCA031N06L-TP
MCT05N06-TP	MCQ4438-TP	MCU20N06A-TP	MCU20N06B-TP
MCU20N06B-TPA01	MCAC30N06Y-TP		

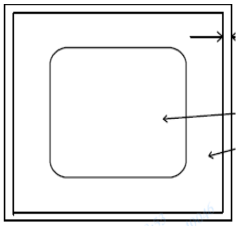
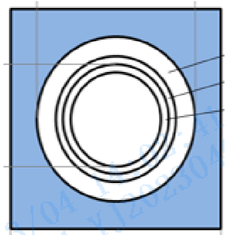
Table 2: Structure Comparison

MPN	Item	Existing Source	New Source
Representative PN : MCQ16N03-TP	X-ray		
	Decap		

Appendix 2: Table 1

No.	Product type	Existing marking	New marking	Package type/code
1	RB500V-40-TP	2	No change	SOD-323

Table 2: Chip Comparison

Item	Existing source	New source
Appearance		
Die Size	0.35*0.35mm	0.28*0.28mm

Reliability Data Summary:

Representative Part Number: MCQ16N03-TP

Date: 2026-2-20

Test Results: PASS

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T_a = 25 °C	N/A	all parts	see below
* **Pre-conditioning for MSL 1**	JESD22A-113 1.Temperature Cycling: -40℃~60℃ 2.Bake:125℃, 3.Moisture Soak:85°C, 85%RH for MSL1, 4.Reflow*3cycles:260℃	5 cycles 24 hours 192hours 3Cycles	261Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}$, 100% VR	1000 hours	77Pcs	0
HTGB High Temperature Reverse Bias	JESD22-A108 $T_j = T_{jmax}$, 100% VGS	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55℃(+0,-10)/15Min~150(+15,-0)/15Min	1000Cycles (500hours)	77Pcs	0
UHAST Unbiased Highly Accelerated Stress	JESD22-A118 T_a = 130 °C±2℃, RH =85%±5%,	48 hours	77Pcs	0
HAST High Humidity High Temperature Reverse Bias	130±℃, 8 5%±5%RH, 80%VR（Max=42V)	96 hours	77 Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 260 °C （+5， -0）	10 s	30Pcs	0
SD Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs	0

***Remark : detail MSL of product refer to data sheet on MCC website.**

Reliability Data Summary:

Part Number: RB500V-40-TP

Date: 2025-12-12

Test Results: PASS

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

***Remark : detail MSL of product refer to data sheet on MCC website.**

Date: 3/6/2026

PCN #: PCN- 030626-1

PCN Title: Additional new 2nd source

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