



Date: Jul 1, 2021

PCN No#: 070121-1

PCN Title: MCC will add new wafer source for ESDLC5V0D9-TP

Dear Customer:

This is an announcement of change(s) to products that are currently being offered by Micro Commercial Components Corp(MCC) .We request that you acknowledge receipt of this notification within 30 days of the date of this PCN. Please refer to the implementation date of this change as it is stated in the attached PCN form. Please contact your local sales representative to acknowledge receipt of this PCN.

If you have any questions about PCN's products, please contact your local sales representative.

Sincerely,

MCC PCN Team



PRODUCT CHANGE NOTICE

Notification Date	Implementation Date	Last Time Buy Ship Date	Change Type	PCN No
Jul 1, 2021	ASAP	N/A	Add new wafer source	070121-1
TITLE				
MCC will add new wafer source for ESDLC5V0D9-TP				
DESCRIPTION OF CHANGE				
To solve our delivery issue of ESDLC5V0D9-TP, MCC has determined to add a new wafer source. Internal qualification process had been finished and the result showed that the parts with new wafer exactly met our specification.				
IMPACT				
No change in datasheet electrical parameters . Table A: Electrical characteristics comparison.				
PRODUCTS AFFECTED				
ESDLC5V0D9-TP				
WEB LINKS				
Terms And Conditions:	https://www.mccsemi.com/Home/TermsAndConditions			
For More Information Contact:	https://www.mccsemi.com/Contact/Index			
Products:	https://www.mccsemi.com/ProductCategories			
DISCLAIMER				
Unless a MCC Sales representative is contacted in writing within 30 days of the posting of this notice, all changes described in this announcement are considered approved.				

Table A - Electrical characteristics comparison

Spec		Old	New
ESD(Air) $\geq \pm 15\text{KV}$		$\pm 20\text{KV}$	$\pm 20\text{KV}$
ESD(Contact) $\geq \pm 8\text{KV}$		$\pm 15\text{KV}$	$\pm 15\text{KV}$
$5.4\text{V} < V_{\text{BR}} < 8.5\text{V}$	$I_{\text{T}} = 1\text{mA}$	7.08V	7.38V
$I_{\text{R}} < 1\mu\text{A}$	$V_{\text{RWM}} = 5\text{V}$	0.030 μA	0.001 μA
$V_{\text{F}} < 1.25\text{V}$	$I_{\text{F}} = 10\text{mA}$	0.875V	0.912V
$V_{\text{C}} < 9.8\text{V}$	$I_{\text{PP}} = 1\text{A}$	9.0V	8.8V
$C_{\text{J}}(\text{I/O-GND}): 0.5\text{pF}(\text{Typ.})$	$V_{\text{R}} = 0\text{V}, f = 1\text{MHz}$	0.46pF	0.55pF

Reliability Report

Part Number: ESDLC5V0D9-TP

Date: 2021-05-03

Test Results

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
PC Preconditioning	JESD22A-113 Bake T _a = 125 °C Soak T _a = 85 °C, RH = 85% Reflow soldering	24 hours 168 hours 3 cycles	308Pcs	0
HTRB High Temperature Reverse Bias	JESD22-A108 T _J = T _{Jmax} , V _R > 80% of max. breakdown voltage	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C to T _{Jmax}	1000 cycles	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C, RH = 85%, V _R > 80 % of rated breakdown voltage	1000 hours	77Pcs	0
ESD Air	IEC61000-4-2 ±15 KV	N/A	30Pcs	0
ESD Contact	IEC61000-4-2 ±8 KV	N/A	30Pcs	0
RSH Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C ± 5 °C	10 s	30Pcs	0
SD Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 T _a ≤ -55 °C	1000 hours	32Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 T _a ≥ 150 °C	1000 hours	77Pcs	0