



Date: Apr 26, 2022

PCN No#: 042622-1

PCN Title: Additional new wafer source for ESDPLC5V0AE2-TP & ESDSLC5V0L2B-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	Change Type	Classification	PCN No
Apr 26, 2022	ASAP	Add new wafer source	Major	042622-1
TITLE				
Additional new wafer source for ESDPLC5V0AE2-TP & ESDSLC5V0L2B-TP				
DESCRIPTION OF CHANGE				
Because of Russian wafer supply problems, MCC has determined to add a new wafer source of ESDPLC5V0AE2-TP & ESDSLC5V0L2B-TP to solve our delivery issue. 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: Marking Code Comparison. Table B: Electrical Characteristics Comparison.				
PRODUCTS AFFECTED				
ESDPLC5V0AE2-TP & ESDSLC5V0L2B-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 - Marking Code Comparison

PN	Old	New
ESDPLC5V0AE2-TP	XX	ZV
ESDSL5C5V0L2B-TP	5N	BV

Table B - Electrical Characteristics Comparison

Spec	Conditions	Typical Value	
		Old	New
$6.1V < V_H < 8V$	$I_H = 1mA$	7.1V	7.55V
$I_R < 50nA$	$V_R = 5.5V$	4.2nA	2.9nA
$V_C < 13V$	$I_{PP} = 1A, t_p = 8/20\mu s$	10.2V	9.8V
$V_C < 15V$	$I_{PP} = 3A, t_p = 8/20\mu s$	13.8V	13.6V
$C_J < 0.2pF$	$V_R = 0V, f = 1MHz$	0.16pF	0.17pF

Reliability Report

Part Number:ESDPLC5V0AE2-TP

Date: 2022-03-25

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
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 150 °C	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
VC Clamping Voltage	Pppm=Peak Pulse Power Dissipation IPP=IPP(Max)	5 cycles	77Pcs	0
ESD Human Body Model	JESD22-A114 4 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