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29th May, 2023

Digi-Key Corporation
701 Brooks Ave South
Thief River Falls, Minnesota 56701

PCN-01641

Subject: Adding additional testing site.

Dear Valued Customer,

MACOM Technology Solutions has a goal of providing redundant manufacturing capability for increased surge capacity as well as an uninterrupted supply chain. In alignment with this goal, we are pleased to announce an additional testing site for the parts listed in the next pages.

In addition to our current testing sites, we planned to test these parts at our long-standing Contract Manufacturer, Year 2000, Ho Chi Minh City, Vietnam. Year 2000 is a valued, high-quality manufacturing partner for many MACOM products.

In accordance with MACOM Technology Solutions' customer notification policy, you are receiving this notice because you have purchased one or more of the products listed in the previous two-year period.

Please contact your local sales representative if you have any specific questions.

Sincerely

Tom Galluccio
Director, Product Marketing
thomas.galluccio@macom.com

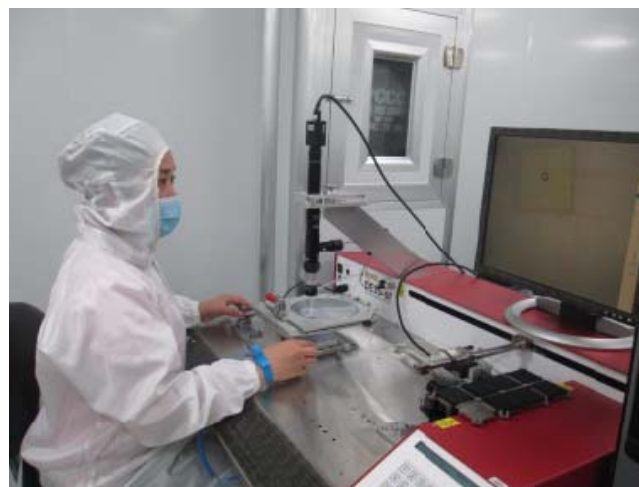
Appendix I
Affected part numbers

Part Number	Part type
MA4SW210B-1	Chip Diode
MADS-E931Z2-12610W	Chip Diode
MA4AGSW1A	Chip Diode
MA4AGSW3	Chip Diode
MA4AGSW4	Chip Diode
MA4SW310	Chip Diode
MADP-000907-14020W	Chip Diode
MA4P161-134	Chip Diode
MA4SW410B-1	Chip Diode
MA4PC725-1	Chip Diode
MA4P607-212	Chip Diode
MA4SW110	Chip Diode
MA4GP022-277	Chip Diode
M5X4945	Chip Diode
MA4SW310B-1	Chip Diode
MA4SW410	Chip Diode
MASW-004100-11930G	Chip Diode
M5X3171	Chip Diode
MASW-000552-13210G	Chip Diode
MA4FCP200	Chip Diode
MLP7112-0503-R	Chip Diode

Part Number	Part type
MLP7102-0503-R	Chip Diode
MA47418-134	Chip Diode
MNP0010-C12P	Chip Diode
MASW-002100-11910W	Chip Diode
MA4E2062H-1213	Chip Diode
M2X8408	Chip Diode
MADS-001317-1500AG	Chip Diode
MA4GP907	Chip Diode
M5X5124	Chip Diode
MNP0008-C12P	Chip Diode
MA4L021-134	Chip Diode
MA4E2501L-1290	Chip Diode
MA4L022-134	Chip Diode
M5X3520	Chip Diode
MA4P203-134	Chip Diode
MA4L031-134	Chip Diode
MA4GP907-PB	Chip Diode
MX50763-11	Chip Diode
M5X1541	Chip Diode
MAVR-011048-DIEWPK	Chip Diode
M5X4189	Chip Diode
MMP7025-11	Chip Diode
MX52159-11	Chip Diode
MA46603-134	Chip Diode
M5X5005	Chip Diode
MA47406-132	Chip Diode
MPN7306-C12	Chip Diode

Part Number	Part type
M5X1848	Chip Diode
9122RM	Chip Capacitor
MA4M2020	Chip Capacitor
9049RK	Chip Capacitor
MA4M3010	Chip Capacitor
M3X1511	Chip Capacitor
MCC100-2B	Chip Capacitor
901000RM-SP	Chip Capacitor
M3X2157	Chip Capacitor
MCC100-25C	Chip Capacitor

Appendix II
The new testing and assembly facility



Appendix III Qualification process capability data

The representative part numbers (MX51267-11 and MC2S022025-025) are tested and qualified in Year 2000 as below, and the rest parts in the pcn can be qualified by similarity to the representative parts as they have the same production process.

1. Chip Diode.

MX51267-11

Test conditions: IR1max=10uA, under -1100V.

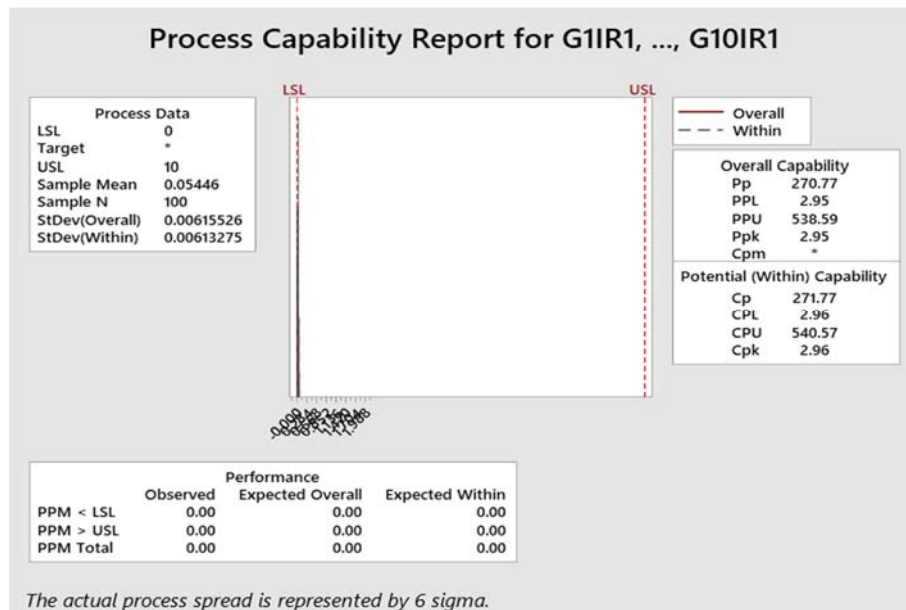
IR2max=0.05uA, under -1000V.

Cj1max=0.25pF, under -28V.

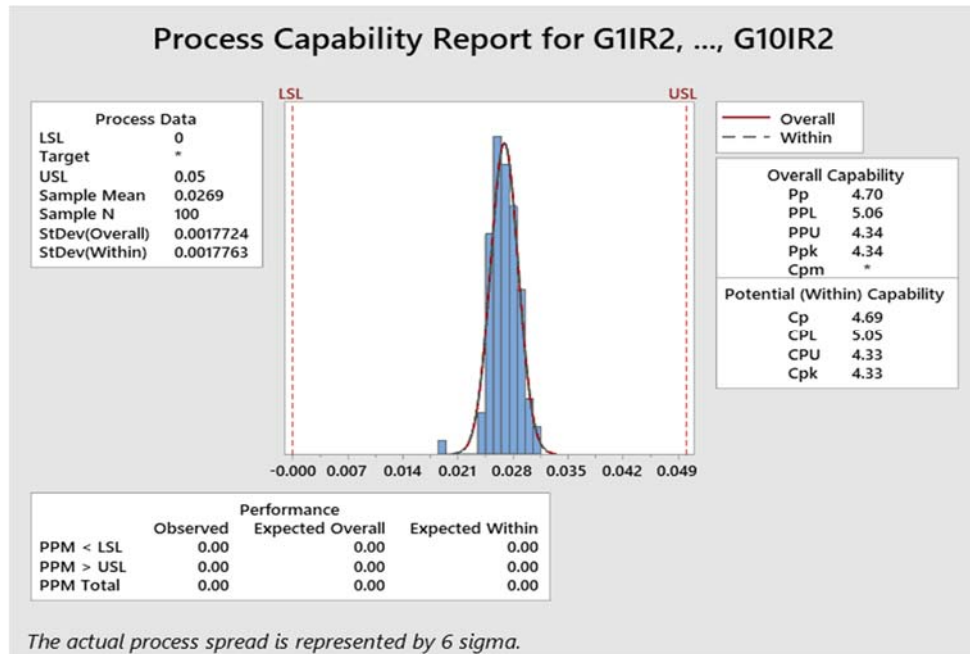
VF1max=1.25V, under 100mA.

Sample size=100,10 sub-groups.

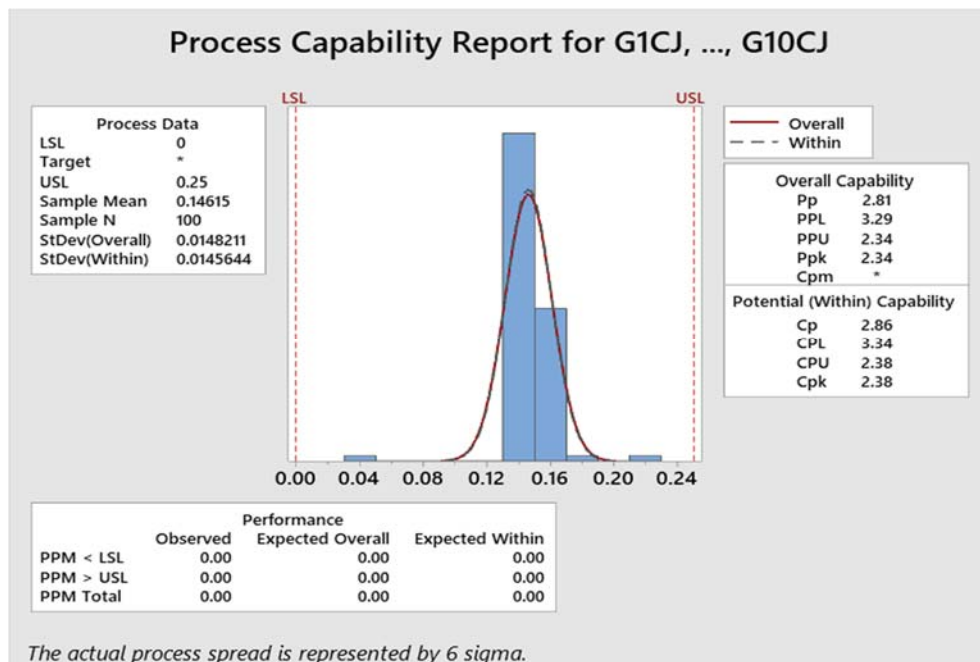
IR1:



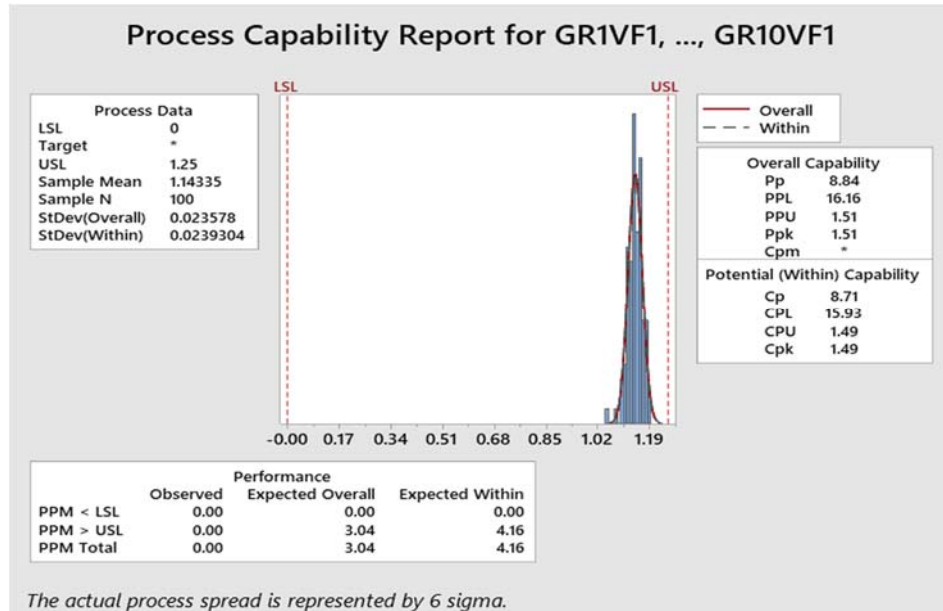
IR2:



Cj1:



VF1:



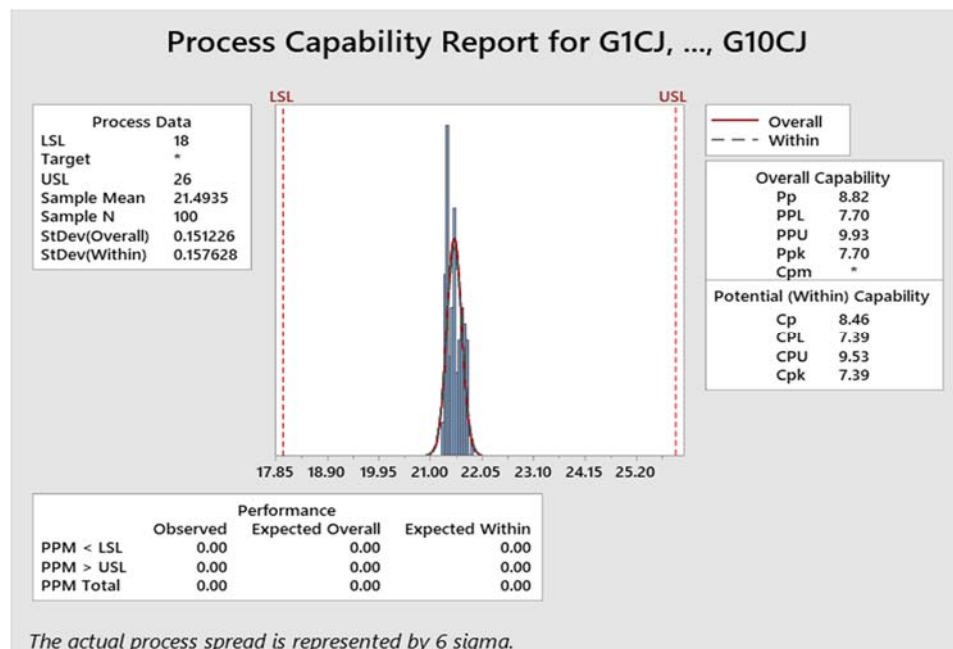
2. Chip Capacitor.

MC2S022025-025

Test conditions: $C_{j1min}=18pF$, $C_{j1max}=26pF$, under 0V.

Sample size=100,10 sub-groups.

CJ1:



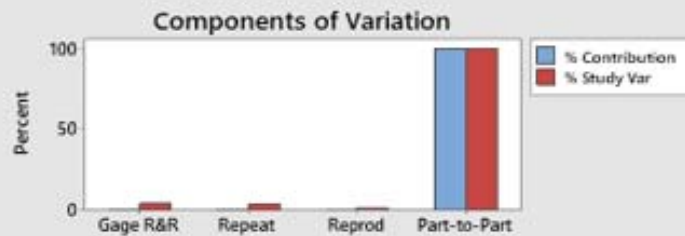
Appendix IV
Qualification Gage R&R testing data

1. Chip Diode test parameters

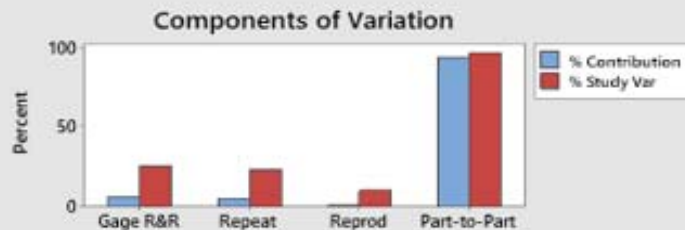
GR&R summary:

Specification:-			
a) GR&R Contribution % $\leq 10\%$			
b) GR&R Variation % $\leq 30\%$			
Parameter	GR&R Contribution % GR&R	GR&R Variation% GR&R	Result
IR1	0.21	4.57	PASS
IR2	6.62	25.72	PASS
Cj1	1.13	10.65	PASS
VF1	2.13	14.6	PASS

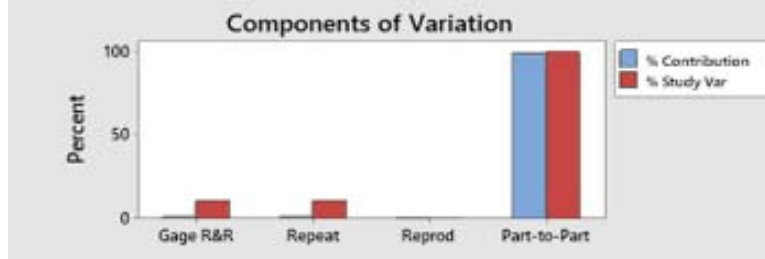
Gage R&R (ANOVA) Report for IR1



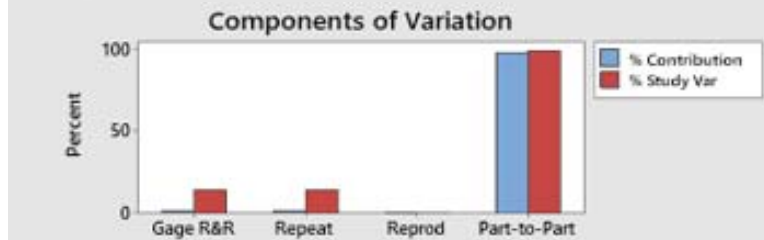
Gage R&R (ANOVA) Report for IR2



Gage R&R (ANOVA) Report for Cj1



Gage R&R (ANOVA) Report for VF1



2. Chip Capacitor test parameters

GR&R summary:

Specification:-			
a) GR&R Contribution % $\leq 10\%$			
b) GR&R Variation % $\leq 30\%$			
Parameter	GR&R Contribution % GR&R	GR&R Variation% GR&R	Result
Cj1	0	0.67	PASS

Gage R&R (ANOVA) Report for Cj1

