MACOM

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11 Jan 2023

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

PCN-01602

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
MSWSE-040-10	Plastic Diode
MSWSE-050-17	Plastic Diode
MSWSE-020-05-NPG	Plastic Diode
MSWSE-050-10	Plastic Diode
MSWSE-005-15	Plastic Diode
MSWSE-044-10	Plastic Diode
MSWSE-010-15S	Plastic Diode
MSWSE-020-05	Plastic Diode
MSWSE-005-10S	Plastic Diode
M5X1839-1	Chip Diode
MX52272-11	Chip Diode
MX40282-11	Chip Diode
MPN7345-C40	Chip Diode
M2X3487	Chip Diode
MMP7041-11	Chip Diode
MLP7110-11	Chip Diode
M5X1365	Chip Diode
MX51279-11	Chip Diode
M5X4289	Chip Diode
MX51589-11	Chip Diode
M5X1095	Chip Diode
MMPN080045	Chip Diode



Part Number	Part type
MX51745-11	Chip Diode
MX52009-11	Chip Diode
M2X1498	Chip Diode
MMD820-C12	Chip Diode
M5X4656	Chip Diode
MX50351-11	Chip Diode
MA46H120	Chip Diode
MA4SW210	Chip Diode
9028RK-SP14	Chip Capacitor
9115R0K-BOO	Chip Capacitor
902R2K	Chip Capacitor
9050RM-SP18	Chip Capacitor
90R5K-SP	Chip Capacitor
9110RK	Chip Capacitor
M3X1513	Chip Capacitor
9110RM-15	Chip Capacitor
MC2S050020-020	Chip Capacitor

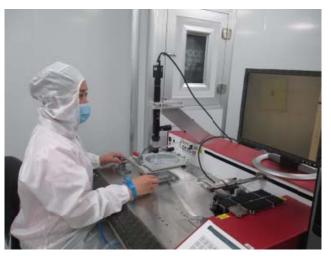


Appendix IIThe new testing and assembly facility











Appendix III Qualification process capability data

Three representative part numbers (MSWSE-050-17 and 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. Plastic Diode.

MSWSE-050-17

Test conditions: IR1max=5uA, under -505V.

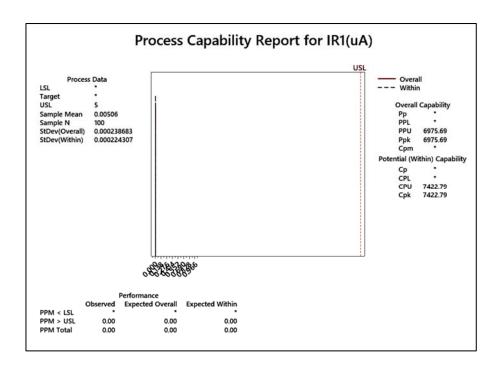
IR2max=0.1uA, under -100V.

Cj1max=0.245pF, under -50V.

VF1max=0.945V, under 50mA.

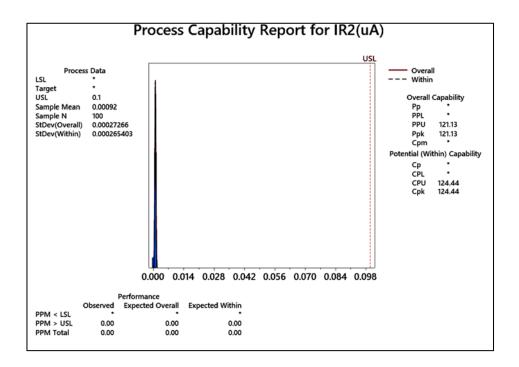
Sample size =100,10 sub-groups.

IR1:

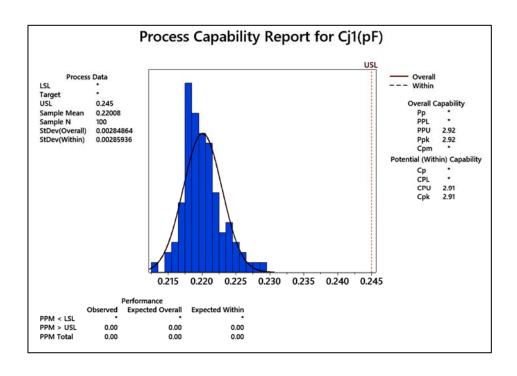




IR2:

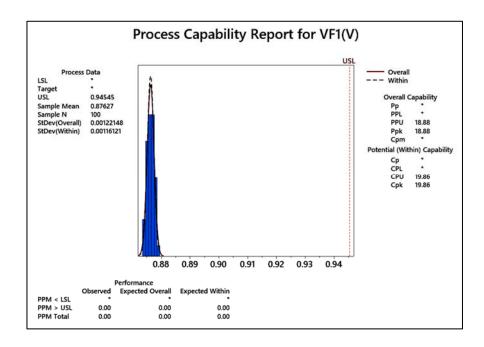


Cj1:





VF1:



2. Chip Diode.

MX51267-11

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

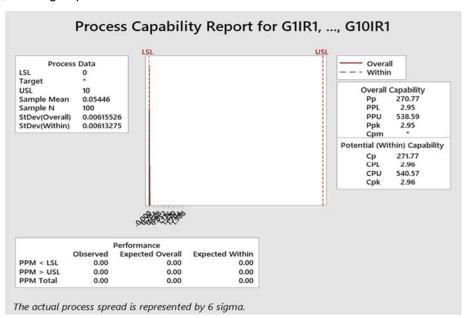
IR2max=0.05uA, under -1000V.

Cj1max=0.25pF, under -28V.

VF1max=1.25V, under 100mA.

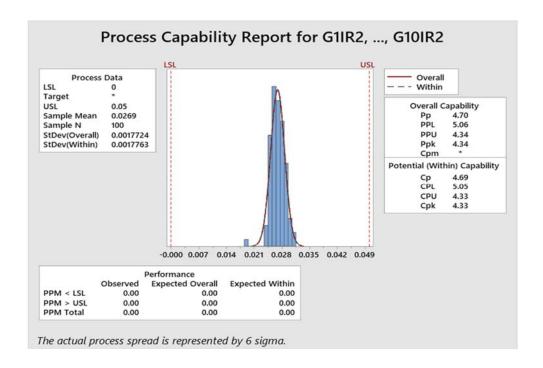
Sample size=100,10 sub-groups.

IR1:

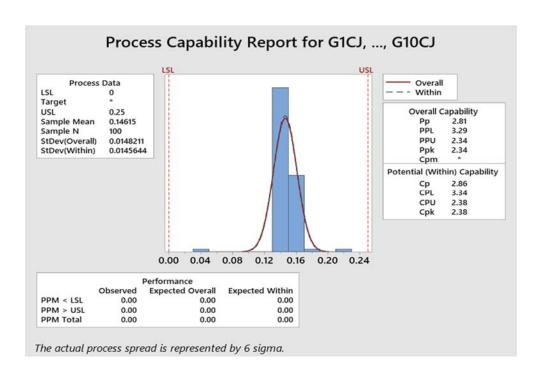




IR2:

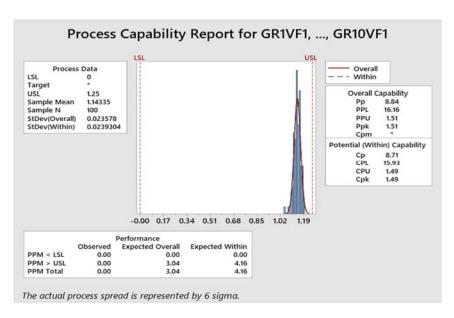


Cj1:





VF1:



3. Chip Capacitor.

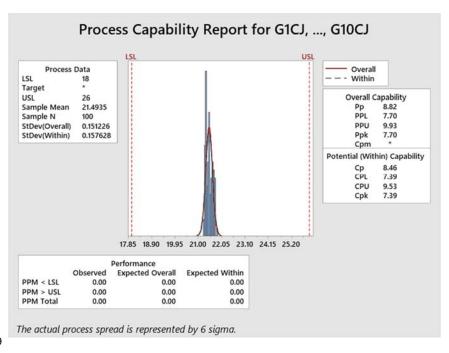
MC2S022025-025

Test conditions: Cj1min=18pF, Cj1max=26pF, under 0V.

VBmin=50V, under -10uA.

Sample size=100,10 sub-groups.

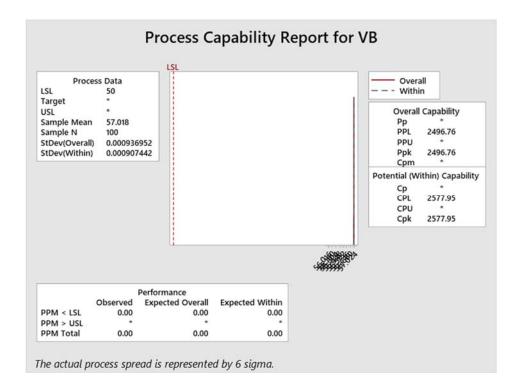
CJ1:



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VB:



Appendix IV Qualification Gage R&R testing data

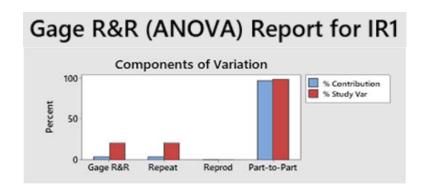
1. MSWSE-040-10 Plastic Diode test parameters

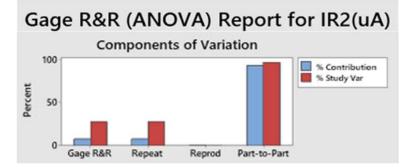
Specification:-

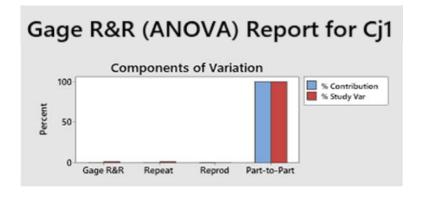
GR&R summary:

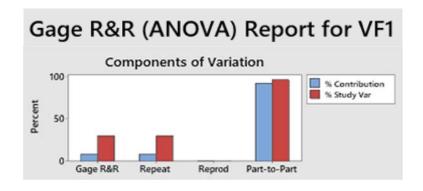
a) GR&R Contribution % ≦10% b) GR&R Variation % ≦30%			
Parameter	GR&R Contribution % GR&R	GR&R Variation% GR&R	Result
IR1	4.2	20.5	PASS
IR2	7.89	28.1	PASS
Cj	0.03	1.83	PASS
VF	8.97	29.69	PASS









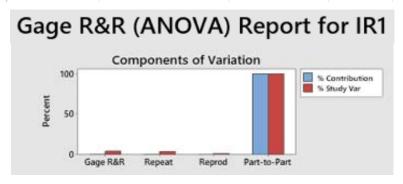


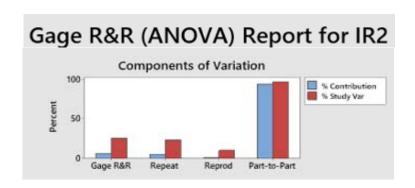


2. Chip Diode test parameters

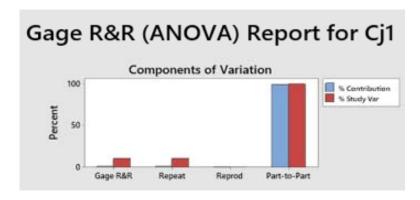
GR&R summary:

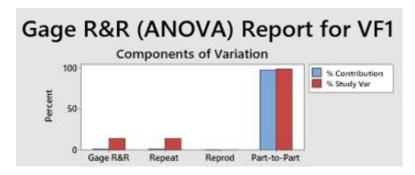
Specification:-			
a) GR&R Contr	ibution % ≦10%		
b) GR&R Variat	tion % ≦30%		
Parameter	GR&R Contribution %	GR&R Variation%	Result
	GR&R	GR&R	
	GRAR	GNAN	
IR1	0.21	4.57	PASS
IR1 IR2			PASS PASS
	0.21	4.57	
IR2	0.21 6.62	4.57 25.72	PASS











3. Chip Capacitor test parameters

GR&R summary:

Specification:-			
a) GR&R Contr	ibution % ≦10%		
b) GR&R Varia	tion % ≦30%		
	GR&R Contribution	GR&R	
Parameter	% GR&R	Variation% GR&R	Result
Parameter VB	%	Variation%	Result PASS

