MACOM

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30th Oct, 2024

Richardson RFPD, Inc. 2001 Butterfield Road, Suite 1800 Downers Grove, Illinois 60515

ATTN: Quality/Purchasing Manager

PCN-01791

Subject: Product improvement for MAPD-008957-CT0012.

Dear Valued Customer,

Please accept this PCN letter as formal notification for the change of MACOM part number(s) shown below.

MACOM Part Number(s):

MAPD-008957-CT0012

The details of change and the qualification data was shown in the next pages. After the change, the datasheet specifications will remain unchanged.

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,

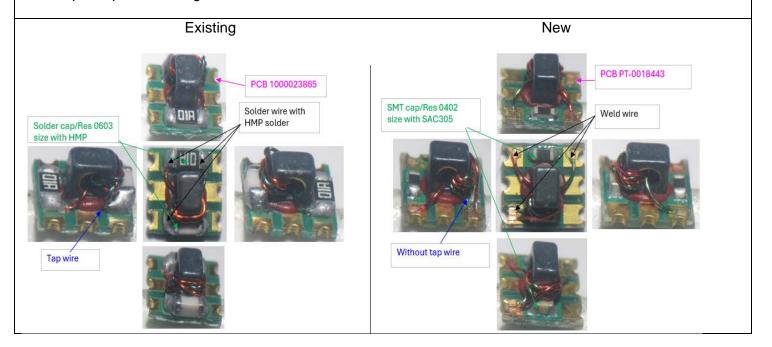
Aidan Mulcahy
Product Marketing Manager
aidan.mulcahy@macom.com

PCN Number: PCN-01791		PCN Date: 30th Oct, 2024	
Title: Product improvement	ent for MAPD-008957-CT0012.		
Proposed 1st Ship Date:		Estimated Sample Availability:	
Jan 30th, 2025		Samples are available	
Change Type:			
Assembly Site	Design X	Electrical Specification	
Test Site	Assembly Process X	Mechanical Specification	
Test Process	Assembly Materials X	Packing/Shipping/Labeling	
PCN Details			

Description of Change:

Change the BOM and the process of MAPD-008957-CT0012 at below areas:

- PCB supplier and the layout change to ensure the supply continuity.
- Solder change from HMP to SAC305 to comply with RoHS 6/6.
- Wire soldering process changed to wire welding and the tap wire was removed.
- Chip component changed from 0603 to 0402 size.





Reason for Change: Since the PCB supplier decided to EOL the PCB used on this part, MACOM introduced the second source from the current AVL list to ensure the PCB supply continuity. In parallel, MACOM improved the design and the related BOM materials to make the new part comply with RoHS 6/6. No change on the data sheet specifications.

Products Affected:

• MAPD-008957-CT0012

Anticipated impact on Fit, Form, Function:

Form, Fit and Function unaffected.

Changes to product identification resulting from this PCN:

None

Qualification: Test Results

Comparative analysis was performed on the parts. The result showed no significant shift in the electrical parameters and the dimensions between the parts with the old and new BOM.

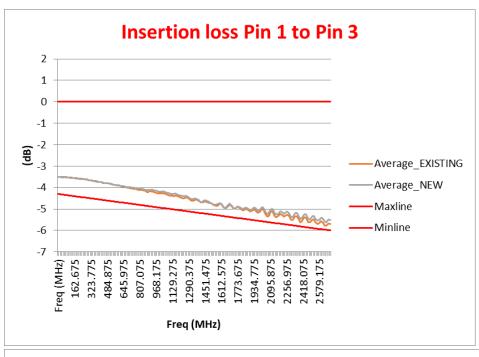
Appendix I: MAPD-008957-CT0012 Electrical Test Comparision Data Appendix II: MAPD-008957-CT0012 Demension Comparison Data

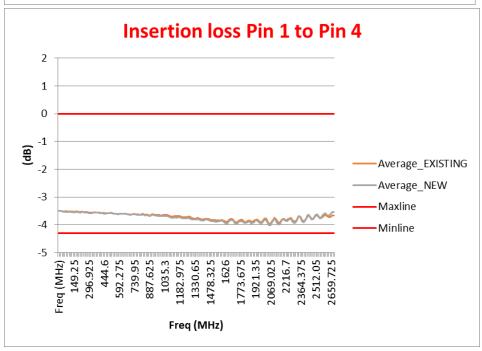
Appendix III: MAPD-008957-CT0012 Solder Composition comparison Data



Appendix I

MAPD-008957-CT0012 Electrical Test Comparison Data



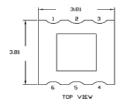




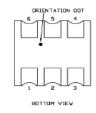
Appendix II

MAPD-008957-CT0012 Demension Comparison Data

Outline Drawing







Dimensions in mm.
Tolerance: ±0.2 mm unless otherwise noted.

OLD BOM				
No Spec	X	Y	Z	
	(3.81+/-0.2)mm	(3.81+/-0.2)mm	(2.3+/-0.2)mm	
MIN spec	3.61	3.61	2.10	
MAX spec	4.01	4.01	2.50	
1	3.80	3.86	2.30	
2	3.82	3.86	2.32	
3	3.81	3.90	2.20	
4	3.83	3.88	2.35	
5	3.83	3.89	2.36	
6	3.82	3.87	2.37	
7	3.82	3.88	2.35	
8	3.81 3.91		2.34	
9	3.84	3.87	2.31	
10	3.82	3.90	2.33	
MIN	3.80 3.86		2.20	
AVERAGE	3.82	3.88	2.32	
MAX	3.84	3.91	2.37	

New BOM			
No Spec	X	Y	Z
	(3.81+/-0.2)mm	(3.81+/-0.2)mm	(2.3+/-0.2)mm
MIN spec	3.61	3.61	2.10
MAX spec	4.01	4.01	2.50
1	3.81	3.93	2.35
2	3.81	3.91	2.32
3	3.80	3.87	2.22
4	3.80	3.87	2.35
5	3.80	3.81	2.36
6	3.79	3.84	2.34
7	3.79	3.92	2.35
8	3.81	3.85	2.31
9	3.79	3.86	2.33
10	3.80	3.90	2.32
MIN	3.79	3.81	2.22
AVERAGE	3.80	3.88	2.33
MAX	3.81	3.93	2.36



Appendix III

MAPD-008957-CT0012 Solder Composion Comparison Data

Existing solder: HMP 362 5C

3. Composition / information on ingredients

General description: Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Lead	80- < 100 %	
7439-92-1		
Tin	1-< 5 %	
7440-31-5		
Rosin	1-< 5 %	Skin sensitizer 1
8050-09-7		H317
Silver	1-< 5 %	
7440-22-4		

New solder: SAC305P

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture
Chemical name or General name Solder paste

Composition

Joinpooldon				
Material name	Chemical formula	CAS No	Official file number	Content wt%
Tin	Sn	7440-31-5	-	85.4
Silver	Ag	7440-22-4	-	2.7
Copper	Cu	7440-50-8	-	0.44
Modified rosin	_	Trade secret	7-946	2.7
Modified rosin	_	Trade secret	7-937	1.8
Solvent (glycol type)	_	Trade secret	7-97	3.6
Miscellaneous	_	Trade secret	-	3.36