4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com April 27th 2018



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

ATTN: Quality/Purchasing Manager

Subject: Alternative Core Supplier.

PCN-01124

Dear Valued Customer:

Please accept this PCN letter as formal notification for the change of M/A-COM Technology Solutions part number(s) shown below.

The device(s) listed on this page are the affected device(s).

According to our records, this device has been purchased by your company within the past twenty-four (24) months.

M/A-COM Part Number(s):

MABA-011028

Technical details of this change notice follow on the next page(s).

Please contact me if you have any questions.

Sincerely, Alan Miller

Product Line Manager (CATV) M/A-COM Technology Solutions

Cell: +978-427-7482

Email: Alan. Miller@macomtech.com

4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com



PCN Number: PCN-01124 PCN Number: April 27th 2018 Title: Alternate Core supplier for P/N MABA-011028 needed due to discontinuance of core material from primary supplier. **Proposed 1st Ship Date: Estimated Sample Availability:** July 31st 2018 Samples available upon request **Change Type: Electrical Specification Assembly Site** Design Test Site Mechanical Specification X **Assembly Process** Test Process Assembly Materials X Packing/Shipping/Labeling X **PCN Details Description of Change:**

- 1. Update Datasheet from V2 to V3.
- 2. The core dimensions are slightly changed.
- 3. The carrier tape dimensions are slightly changed in parallel to fit this new core.

MACOM has identified a second source for the core used on MABA-011028.

MABA-011028

Current Core Alternative Core

4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com

























Addition of second source for ferrite core required to ensure consistency of supply chain.

Products Affected:

MABA-011028

Anticipated impact on Fit, Form, Function:

Form Fit and Function unaffected.

Changes to product identification resulting from this PCN:

None

4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com



Qualification: Test Results

A comparative analysis were performed which showed no significant shift in electrical/mechanical parameters between transformers using the current and second source supplied core.

Appendix I: MABA-011028 Electrical Test Data

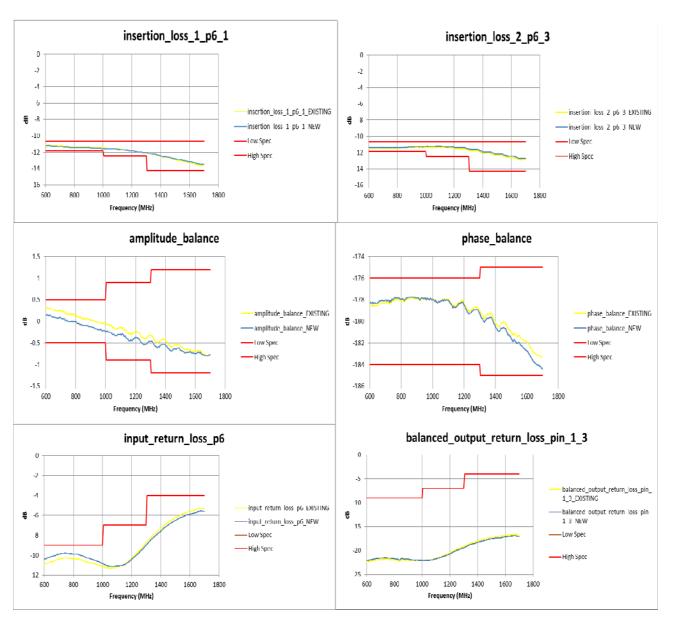
Appendix II: 30pcs outline dimensions data of the new core.

Appendix III: MABA-011028 updated datasheet.

Appendix IV: New carrier tape with XYZ measurement and

Appendix V: Drop test Data.

Appendix I
MABA-011028 Electrical Test Data



4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com



Appendix II

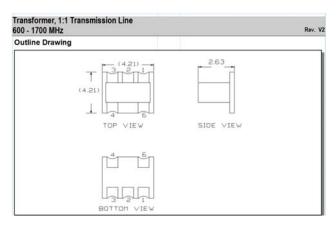
The new core dimensions data

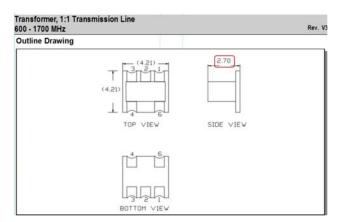
Milimeters				
Unit #	Х	у	Z	
1	4.21	4.25	2.66	
2	4.22	4.21	2.68	
3	4.25	4.22	2.67	
4	4.26	4.27	2.70	
5	4.23	4.21	2.66	
6	4.22	4.19	2.67	
7	4.21	4.26	2.68	
8	4.25	4.22	2.70	
9	4.20	4.23	2.71	
10	4.21	4.24	2.66	
11	4.23	4.21	2.68	
12	4.19	4.20	2.68	
13	4.21	4.21	2.69	
14	4.20	4.25	2.70	
15	4.22	4.19	2.72	
16	4.25	4.20	2.68	
17	4.20	4.21	2.66	
18	4.19	4.22	2.67	
19	4.22	4.18	2.66	
20	4.21	4.22	2.67	
21	4.19	4.23	2.69	
22	4.20	4.24	2.67	
23	4.26	4.26	2.70	
24	4.18	4.21	2.66	
25	4.20	4.20	2.68	
26	4.22	4.21	2.69	
27	4.21	4.19	2.73	
28	4.20	4.19	2.66	
29	4.23	4.18	2.68	
30	4.21	4.20	2.66	
max	4.26	4.27	2.73	
average	4.22	4.22	2.68	
min	4.18	4.18	2.66	

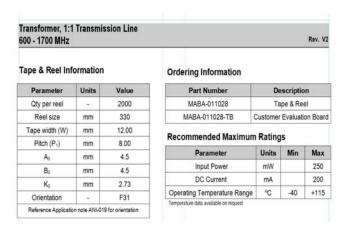
4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com

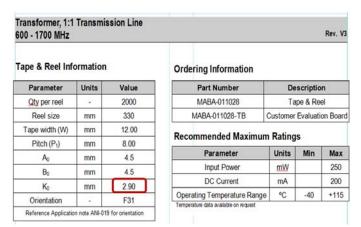


Appendix III MABA-011028 updated datasheet.









Old datasheet Rev.v2

The updated datasheet Rev.v3

4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com



Appendix IV Carrier tape measurement data

Item	Ao	Во	Ko
No/			
Spec	4.5±0.1mm	4.5±0.1mm	2.9±0.1mm
1	4.55	4.53	2.92
2	4.54	4.54	2.90
3	4.53	4.53	2.92
4	4.55	4.55	2.93
5	4.54	4.53	2.95
6	4.53	4.54	2.93
7	4.56	4.54	2.92
8	4.55	4.53	2.93
9	4.57	4.55	2.95
10	4.54	4.54	2.90
11	4.55	4.53	2.92
12	4.54	4.54	2.90
13	4.53	4.53	2.92
14	4.55	4.55	2.93
15	4.54	4.53	2.95
16	4.53	4.54	2.93
17	4.56	4.54	2.92
18	4.55	4.53	2.93
19	4.57	4.55	2.95
20	4.54	4.54	2.90
21	4.55	4.53	2.92
22	4.54	4.54	2.90
23	4.53	4.53	2.92
24	4.55	4.55	2.93
25	4.54	4.53	2.95
26	4.53	4.54	2.93
27	4.56	4.54	2.92
28	4.55	4.53	2.93
29	4.57	4.55	2.95
30	4.54	4.54	2.90
Min	4.53	4.53	2.90
Max	4.57	4.55	2.95
Avg:	4.546	4.538	2.925

4 East Gate Road, Little Island, Co. Cork, Ireland. www.macomtech.com



