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27 Oct. 2021

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

Subject: Alternative transformer substrate.

PCN-01484

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.

M/A-COM Part

Number(s): MABA-

009488-61HWCA

According to our records, one or more of these devices has been purchased by your company within the past twenty-four (24) months.

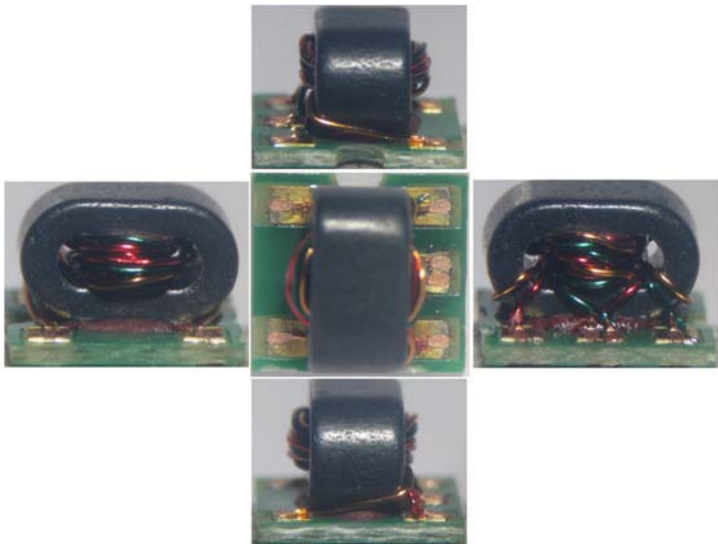
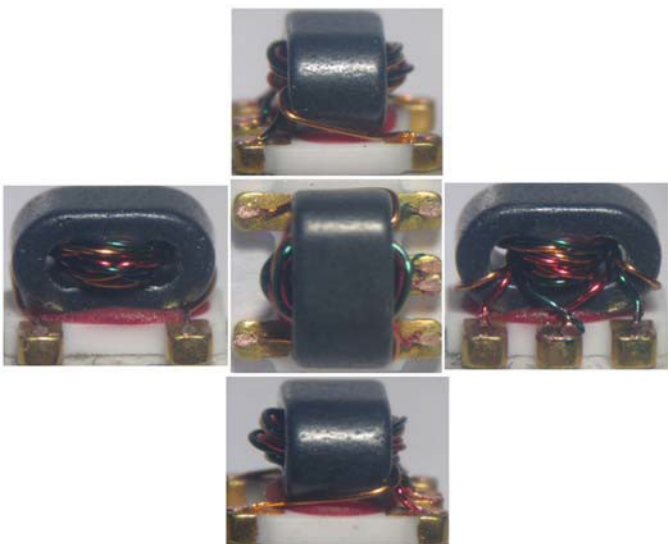
Technical details of this change notice follow on the next page(s).

If there are any questions about this communication, please contact your local M/A-COM sales representative.

Sincerely

Aidan

Mulcahy
Product Marketing Manager
aidan.mulcahy@macom.com

PCN Number: PCN-01484		PCN Date: Oct 27th, 2021
Title: Change FR4 PCB for P/N MABA-009488-61HWCA to easy supply challenges and enable a continuation of supply. There is no change to the performance of the device. This effort is to maintain MACOM's ability to supply this component. During this change we also discovered a datasheet electrical spec error, this has now been corrected on the updated datasheet as outlined in this change notification.		
Proposed 1st Ship Date: As soon as customer approval		Estimated Sample Availability: Samples available upon request
Change Type:		
Assembly Site	Design	Electrical Specification X
Test Site	Assembly Process	Mechanical Specification X
Test Process	Assembly Materials X	Packing/Shipping/Labeling
PCN Details		
Description of Change:		
<p>Below photos show the appearance of the MABA-009488-61HWCA before and after the substrate change.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Existing</p>  </div> <div style="text-align: center;"> <p>MABA-009488-61HWCA</p> </div> <div style="text-align: center;"> <p>New</p>  </div> </div>		

Reason for Change:

Alternative materials to ensure consistency of the supply chain.

Products Affected:

MABA-009488-61HWCA

Anticipated impact on Fit, Form, Function:

Fit and form changed. Function unaffected.

Changes to product identification resulting from this PCN:

None

Qualification: Test Results

A comparative analysis was performed which showed no significant shift in electrical parameters between transformers using the PCB and ceramic carrier.

Appendix I: Datasheet electrical spec updates.

Appendix II: Datasheet outline drawing updates.

Appendix III: Electrical test data composition between the parts with exsisting and new substrates.

Appendix I

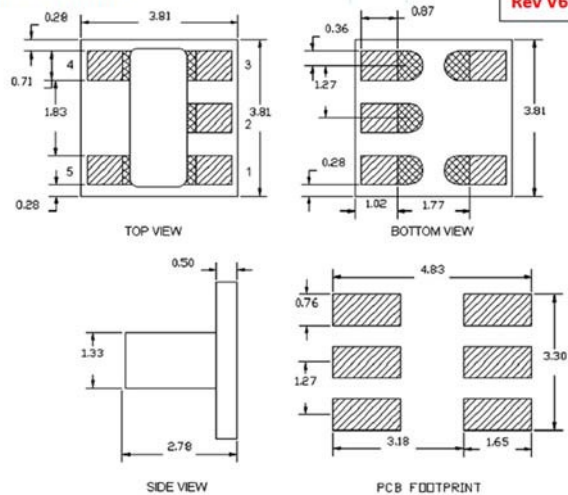
Rev.V7

Electrical Specifications: Freq. = 3 - 800 MHz, T_A = 25°C, Z₀ = 50 Ω, P_{IN} = 0 dBm

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	3 - 400 400 - 800	dB	—	0.8 1.5	1 3
Amplitude Balance	3 - 400 400 - 800	dB	—	0.1 0.7	0.5 1.5
Phase Balance	3 - 400 400 - 500	°	—	0.3 3.0	3 10
Input Return Loss	3 - 400 400 - 800	dB	13 10 (9)	22 11	30 13

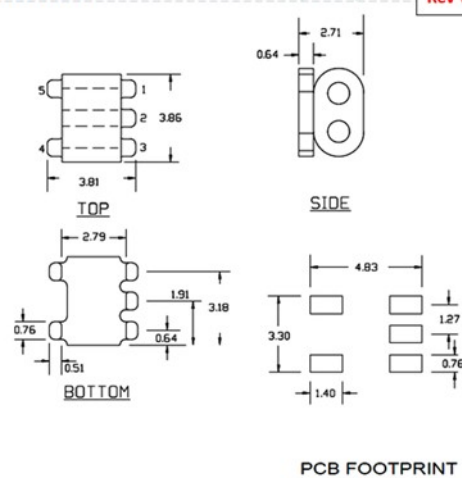
Appendix II

Outline Drawing



* Dimensions are millimeters ± 0.38 unless otherwise specified.

Outline Drawing



* Dimensions are millimeters ± 0.2 unless otherwise specified.

Appendix III

