

M/A-COM Technology Solutions Inc.

1500 Hughes Way, Suite C-100

Long Beach, California 90810

+1 (310) 320-6160

www.macom.com

*Partners from RF to Light*

PCN Number: PCN-00923		PCN Date: September 30 th , 2016
Title: shipping folder change		
Proposed first Ship Date: November 30 th , 2016		Estimated Sample Availability Qualification Completion: September 2 nd , 2016
Proposed last Ship Date:		
Change Classification: Major <input type="checkbox"/>		Minor <input checked="" type="checkbox"/>
Change Type:		
Assembly Site <input type="checkbox"/>	Design <input type="checkbox"/>	Electrical Specification <input type="checkbox"/>
Test Site <input type="checkbox"/>	Assembly Process <input type="checkbox"/>	Mechanical Specification <input type="checkbox"/>
Test Process <input type="checkbox"/>	Assembly Materials <input type="checkbox"/>	Packing/Shipping/Labeling <input checked="" type="checkbox"/>
PCN Details		
Description of Change:		
Shipping folder (MACOM P/N ZZ00000290) change for some of the MACOM power transistor products.		
Reason for Change:		
The new shipping folder will provide better protection against parts dislodging during transit and likely resultant mechanical damages.		
Products Affected:		
MACOM Part Numbers: See attached list on the next page(s).		
Anticipated impact on Fit, Form, Function:		
The new shipping folder has passed first article inspection, drop test, and ESD evaluation and is deemed suitable for MACOM power transistor products and will have no effect in the form, fit, function, or reliability of MACOM power transistor products affected by this change. Please refer to attached test results for details.		
Changes to product identification resulting from this PCN:		
See attached Appearance and Drawing of New Shipping Folder vs. Existing One.		
Material Declaration updated due to this change:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

MACOM Part Numbers Affected by This Change

Affected MACOM Products	Description
LF2810A	Transistor,Mosfet,10W,28V,500-1000MHz
MAPFST0009	Transistor,Screened,UF2805B,NGC
MAPHST0031	Transistor,6.0Wpk,1.2-1.4GHz,6ms,25%
MAPHST0087	Transistor,NRIET,22W,1.65,1.66,1.68GHz,50us
MAPKST0003	Transistor,IAT,Raytheon,SCD#5136134
MAPKST0006	Transistor,IAT,Raytheon,SCD#5136132
MAPKST0022	Transistor,1.0-1.12GHz,28V
MAPR-001214-080MSF	Transistor,80Wpk,1.2-1.4GHz,150us,10%
MRF16006	Transistor,1600-1640MHz,28V,6W
NPT2020	Transistor, 48V 50W DC-3.5GHz HEMT
PH1214-0.85L	Transistor,0.85W,1.20-1.40GHz,2ms,20%
PH1214-20EL	Transistor,Bipolar,20W,28V,1.20-1.40GHz
PH1214-25S	Transistor,Bipolar,25W,28V,1.20-1.40GHz
PH1214-2M	Transistor,Bipolar,Radar,2W,1.2-1.4GHz
PH1214-3L	Transistor,Bipolar,3W,16.5V,1.20-1.40GHz
PH2856-3	Transistor,3Wpk,2.856GHz,12us,10%
PH8591	TRANSISTOR BIPOLAR GE 77A10037
PH8958	Transistor, Raytheon, Bipolar
PH9028WE	TRANSISTOR NOKIA WIRELESS BIPO
PH9029WE	TRANSISTOR NOKIA WIRELESS BIPO
PH9059WE	TRANSISTOR MOTOROLA SCD#480960
PH9078WE	TRANSISTOR NOKIA WIRELESS BIPO
PH9079WE	TRANSISTOR NOKIA WIRELESS BIPO
PH9096	Transistor,Ericsson,SCD#RYN1212101/2
PH9097	Transistor,SCD#RYN1212102/3,Bipolar
PH9159	Transistor, Wellink, ECRIEE
RF2315	Transistor, NAC,SCD 87001F1192,Mosfet
RF2317	Transistor,ITT-Aerospace,SCD#A3132235
RF2342	Transistor,Magnavox,SCD#649023-2,Mosfet
UF2810P	Transistor,Mosfet,10W,28V,100-500MHz
FH2164	Transistor,Mosfet,8W,12V,30-90MHz
LF2805A	Transistor,Mosfet,5W,28V,500-1000_MHz
MAPHST0011	Transistor,Alenia,SCD-82T-638P001
MAPHST0018	Transistor,BP,10W,870-990MHz,300us,15%

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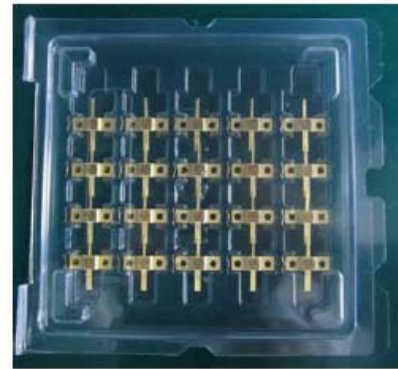
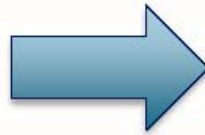
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Affected MACOM Products	Description
MAPHST0066	Transistor,400W,1.03GHz,Mode-S,Pallet
MAPL-010635-000000	Transistor,LDMOS,Rockwell,115W,960-1215
MAPRST1214-6UF	Transistor,6.0Wpk,1.2-1.4GHz,6ms,25%
MRF10005	Transistor,960-1215Mhz,28V,5W
MRF10005-1	Transistor,960-1215Mhz,5W,Formed Leads
NPT1010B	Transistor,GaN,DC-2000MHz,100W
PH1090-15L	Transistor,15W,1.03-1.09GHz,45V
PH1214-12M	Transistor,Bipolar,Radar,12W,1.2-1.4GHz
PH1214-25L	Transistor,25W,28V,1.20-1.40GHz
PH1214-25M	Transistor,Bipolar,25W,28V,1.20-1.40GHz
PH1214-40M	Transistor,40W,40V,1.20-1.40GHz
PH1214-6M	Transistor,Bipolar,6W,1.20-1.40_GHz
PH1617-2	Transistor,Bipolar,Wless,2W,1.6-1.7GHz
PH3134-10M	Transistor,Bipolar,Radar,10W,3.1-3.4GHz
PH8890	Transistor,NEC,SCD#SPS-V-45068-1,Bipolar
PH8929	Transistor,SAAB,SCD#RYN1212100
PH9034	Transistor,Raytheon,SCD#G533519,Bipolar
RF2354	Transistor,ITT_Aerospace,SCD#A3266277-2
RF2355	Transistor,ITT-Aerospace,PN#CP0200002-1
SRF4290	Transistor,1025-1150MHz,50V,70pk
UF2805B	Transistor,Mosfet,5W,28V,100-500MHz
UF2815B	Transistor,Mosfet,15W,28V,100-500MHz
UF2820P	Transistor,Mosfet,20W,28V,100-500MHz
UF2840P	Transistor,Mosfet,40W,28V,100-500MHz

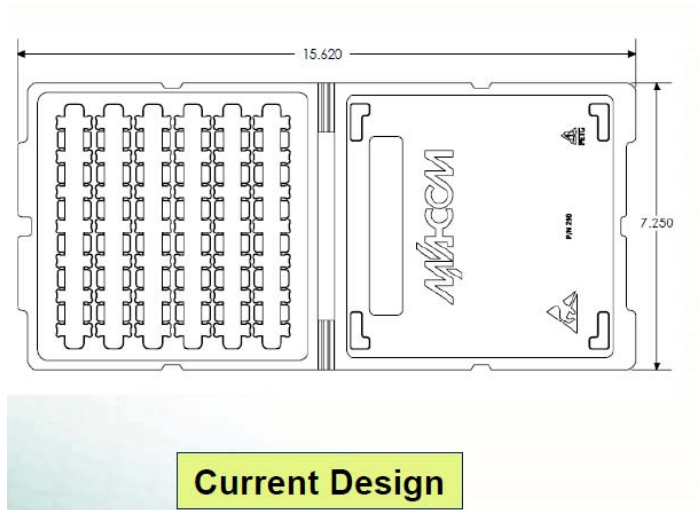
Appearance and Drawing of New Shipping Folder vs. Existing One



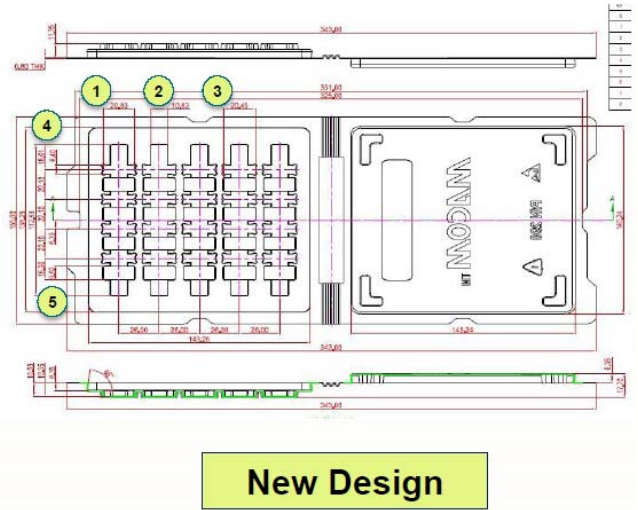
Current Design



New Design



Current Design



New Design

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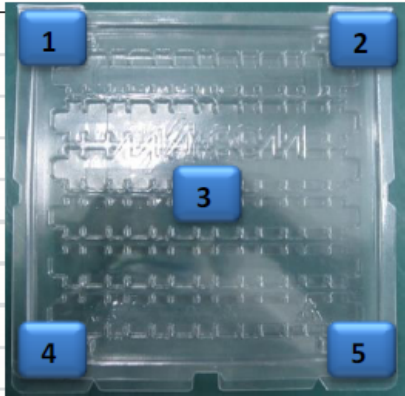

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**New Shipping Folder First Article Inspection Result**

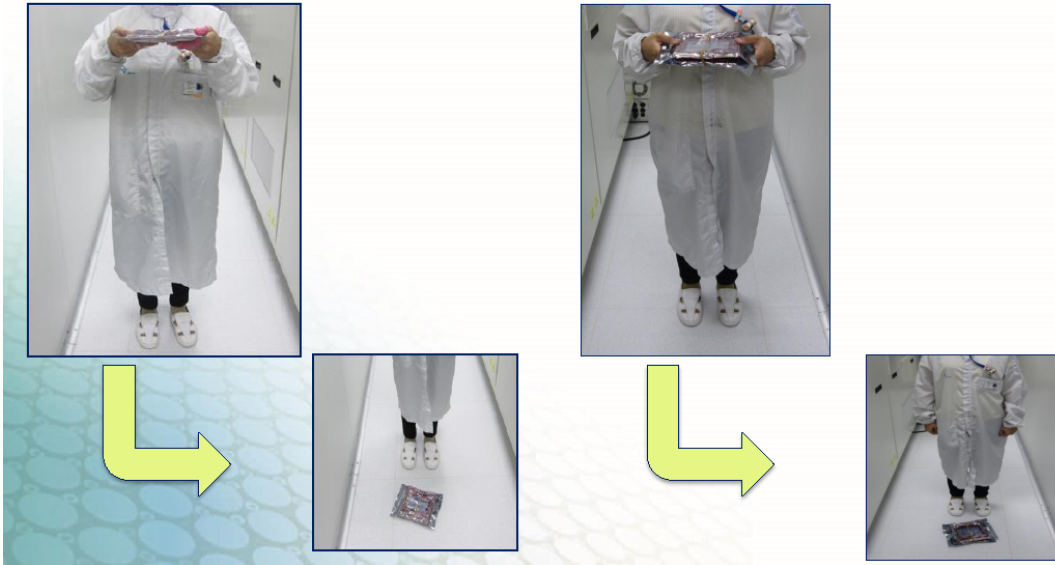
Item	Point 1	Point 2	Point 3	Point 4	Point 5
DWG	20.83±0.635	10.83±0.635	20.45±0.635	6.40±0.635	9.82±0.635
Min- Max	20.195-21.465	10.195-11.465	19.815-21.085	5.765-7.035	9.185±10.455
1	21.40	10.59	21.04	6.91	10.03
2	21.32	11.39	21.01	6.99	10.34
3	21.36	11.25	20.99	7.01	10.36
4	21.37	11.23	20.96	7.00	10.11
5	21.34	11.35	21.00	7.02	10.35
6	21.31	11.21	20.96	6.98	10.37
7	21.44	11.37	20.93	6.99	10.39
8	21.37	11.17	21.08	7.00	10.40
9	21.37	11.31	20.81	7.01	10.31
10	21.40	11.34	20.91	7.02	10.28
Min	21.31	10.59	20.81	6.91	10.03
Max	21.44	11.39	21.08	7.02	10.40

ESD Evaluation of New Shipping Folder vs. Existing One

TRAY P/N#Z00000290(OLD)		Spec. Less than100 volt/Inch					
		Tray#	Point#1	Point#2	Point#3	Point#4	Point#5
		1	5	5	5	5	5
		2	5	5	5	6	7
		3	5	6	8	5	5
		4	6	5	5	5	5
		5	5	5	5	5	6
		6	5	7	5	7	5
		7	7	5	5	5	5
		8	5	5	5	8	7
		9	8	5	8	5	6
		10	5	5	5	5	5
TRAY P/N#Z00000290(NEW)		Spec. Less than100 volt/Inch					
		Tray#	Point#1	Point#2	Point#3	Point#4	Point#5
		1	5	5	6	5	5
		2	5	6	5	6	7
		3	5	5	5	5	5
		4	5	5	5	6	6
		5	5	5	7	5	6
		6	5	5	5	7	5
		7	8	5	5	5	8
		8	5	5	5	5	7
		9	7	6	6	5	6
		10	5	5	5	6	5

Drop Test Result of New Shipping Folder

1. Put the parts into tray and close with cover.
2. Wrap with the rubber and bubble sheet.
3. Drop test height 80 cm. Drop test 3-times on hard floor on hard floor.
4. After drop test, open the cover tray and inspect tray and units



- Tray are not damage.
- The parts not movement and not bent lead.

So this tray was passed “ Drop test “ and protect parts movement and bent lead

