



Product Change Notification: CAAN-14BMUP085

Date:

25-Jun-2026

Product Category:

Closed Fan Controllers, Digital Temperature Sensors, Temperature Sensors

Notification Subject:

CCB 8312 Initial Notice: Qualification of MTAI as a new final test site and scan and pack site for selected EMC1402, EMC1412, EMC1422, EMC1072, EMC1413, EMC1403, EMC1404, EMC1423, EMC1414, EMC1424, EMC1073, EMC1074, EMC1046, EMC1047, EMC1442, EMC1462, EMC1444, EMC1464, MCP9903, MCP9904, EMC1438, EMC1428, EMC2103-4 and EMC2103-2 device families available in various packages.

Affected CPNs:

[CAAN-14BMUP085_Affected_CPN_06252026.pdf](#)

[CAAN-14BMUP085_Affected_CPN_06252026.csv](#)

PCN Status: Initial Notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the files found in the Affected CPNs section.

Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change: Qualification of MTAI as a new final test site and scan and pack site for selected EMC1402, EMC1412, EMC1422, EMC1072, EMC1413, EMC1403, EMC1404, EMC1423, EMC1414, EMC1424, EMC1073, EMC1074, EMC1046, EMC1047, EMC1442, EMC1462, EMC1444, EMC1464, MCP9903, MCP9904, EMC1438, EMC1428, EMC2103-4 and EMC2103-2 device families available in various packages.

Pre and Post Summary Changes:

	Pre Change	Post Change	Change (Yes/No)
Final Test Site	Sigurd – Taiwan (ASSEMBLY &	Microchip	Yes

Scan and Pack Site		TEST) (SIGT)	Technology Thailand (HQ) (MTAI)	
Packing Material/Method	8L MSOP (3x3mm)	See Pre and Post Change Summary for Comparison		Yes
	10L VDFN (3x3x0.9mm)	See Pre and Post Change Summary for Comparison		Yes
	10L MSOP (3x3mm)	See Pre and Post Change Summary for Comparison		Yes
	8L TDFN (2x3x0.75mm)	See Pre and Post Change Summary for Comparison		Yes
	10L MSOP (3x3x1.0mm)	See Pre and Post Change Summary for Comparison		Yes
	16L VQFN (4x4x1.0mm)	No changes		No

Impacts to Datasheet: None

Change Impact: None

Reason for Change: To improve manufacturability and on-time delivery performance by qualifying MTAI as a new final test site and scan and pack site.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: July 2026

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Timetable Summary:

	June 2026					July 2026			
Work Week	23	24	25	26	27	28	29	30	31

Initial PCN Issue Date				X					
Qual Report Availability									X
Final PCN Issue Date									X

Method to Identify Change: Traceability Code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History: June 25, 2026: Issued initial notification.

Note: The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable product.

Attachments:

[PCN_CAAN-14BMUP085_Pre and Post Change_Summary.pdf](#)

[PCN_CAAN-14BMUP085_Qual_Plan.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN):

EMC1046-1-AIZL-TR
EMC1046-6-AIZL-TR
EMC1047-1-AIZL-TR
EMC1047-2-AIZL-TR
EMC1072-1-ACZL-TR
EMC1072-A-ACZL-TR
EMC1073-1-AIZL-TR
EMC1073-A-AIZL-TR
EMC1074-1-AIZL-TR
EMC1074-A-AIZL-TR
EMC1402-1-ACZL-TR
EMC1402-2-ACZL-TR
EMC1402-3-ACZL-TR
EMC1402-4-ACZL-TR
EMC1403-1-AIA-TR
EMC1403-1-AIZL-TR
EMC1403-2-AIA-TR
EMC1403-2-AIZL-TR
EMC1403-3-AIZL-TR
EMC1403-4-AIZL-TR
EMC1404-1-AIZL-TR
EMC1404-2-AIZL-TR
EMC1404-3-AIZL-TR
EMC1404-4-AIZL-TR
EMC1412-1-AC3-TR
EMC1412-1-ACZL-TR
EMC1412-2-ACZL-TR
EMC1412-A-AC3-TR
EMC1412-A-AC3-TR-AAL
EMC1412-A-ACZL-TR
EMC1413-1-AIZL-TR
EMC1413-3-AIZL-TR

CAAN-14BMUP085 - CCB 8312 Initial Notice: Qualification of MTAI as a new final test site and scan and pack site for selected EMC1402, EMC1412, EMC1422, EMC1072, EMC1413, EMC1403, EMC1404, EMC1423, EMC1414, EMC1424, EMC1073, EMC1074, EMC1046, EMC1047, EMC1442, EMC1462, EMC1444, EMC1464, MCP9903, MCP9904, EMC1438, EMC1428, EMC2103-4 and EMC2103-2 device

EMC1413-A-AIA-TR

EMC1413-A-AIZL-TR

EMC1414-1-AIZL-TR

EMC1414-3-AIZL-TR

EMC1414-A-AIA-TR

EMC1414-A-AIZL-TR

EMC1422-1-ACZL-TR

EMC1422-2-ACZL-TR

EMC1423-1-AIZL-TR

EMC1424-1-AIZL-TR

EMC1428-1-AP-TR

EMC1428-6-AP-TR

EMC1428-7-AP-TR

EMC1428-7-AP-TR-CB7

EMC1438-1-AP-TR

EMC1438-2-AP-TR

EMC1442-A-AC3-TR

EMC1444-A-AIA-TR

EMC1462-A-AC3-TR

EMC1464-A-AIA-TR

EMC2103-2-AP-TR

EMC2103-4-AP-TR

MCP9903T-1E/9Q

MCP9903T-2E/9Q

MCP9903T-AE/9Q

MCP9904T-1E/9Q

MCP9904T-2E/9Q

MCP9904T-AE/9Q

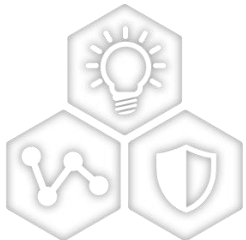
CCB 8312

Pre and Post Change Summary

PCN #: CAAN-14BMUP085

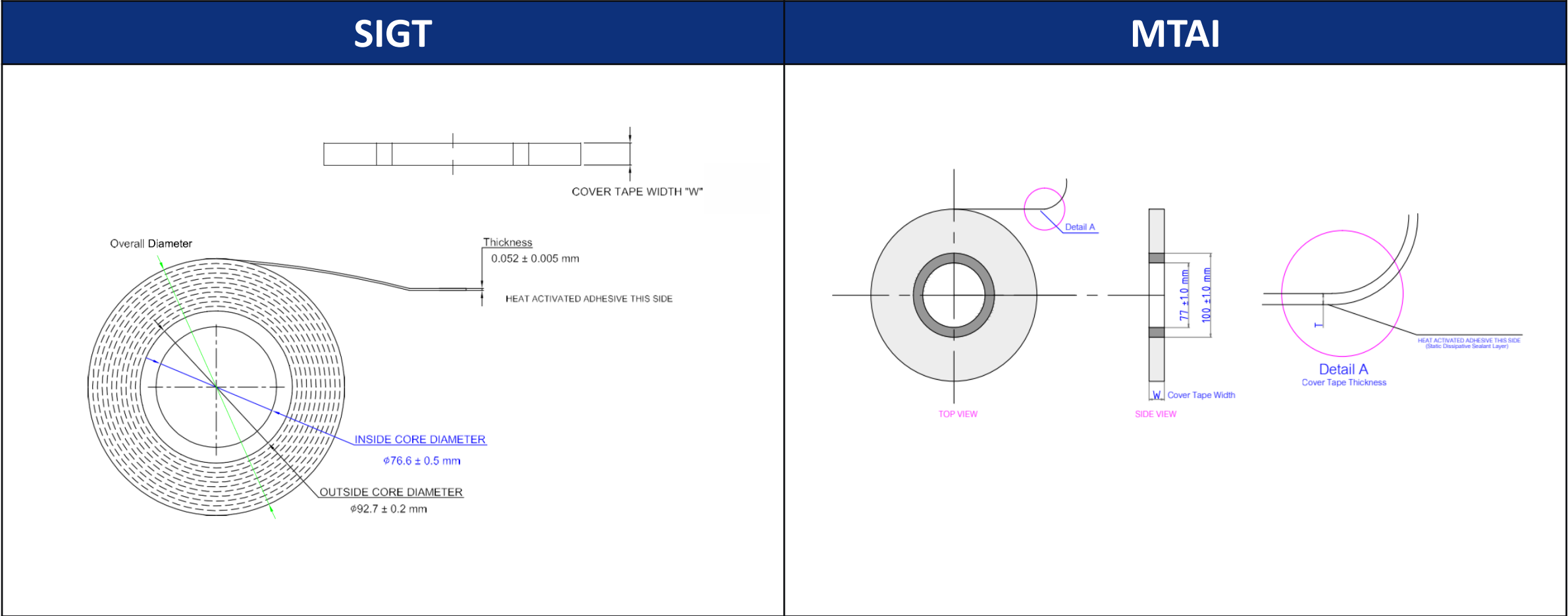


A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



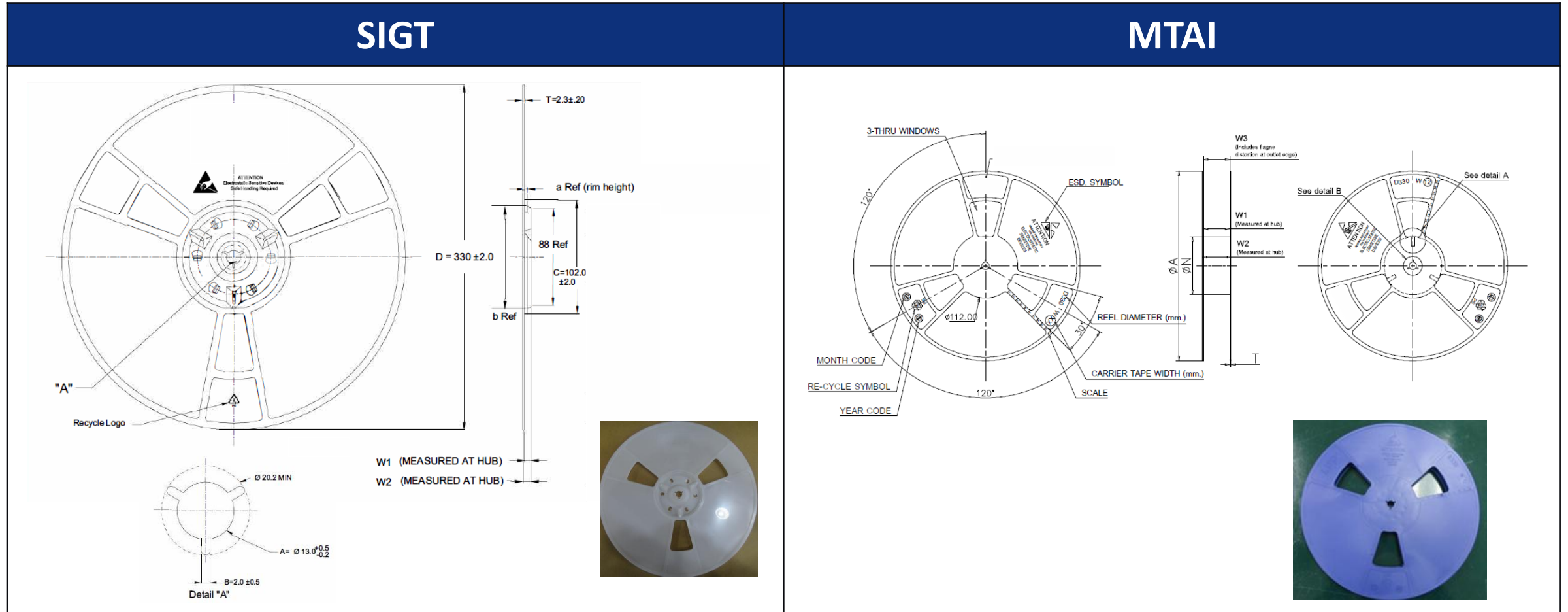
SMART | CONNECTED | SECURE

Cover Tape (8L MSOP (3x3mm) TnR)



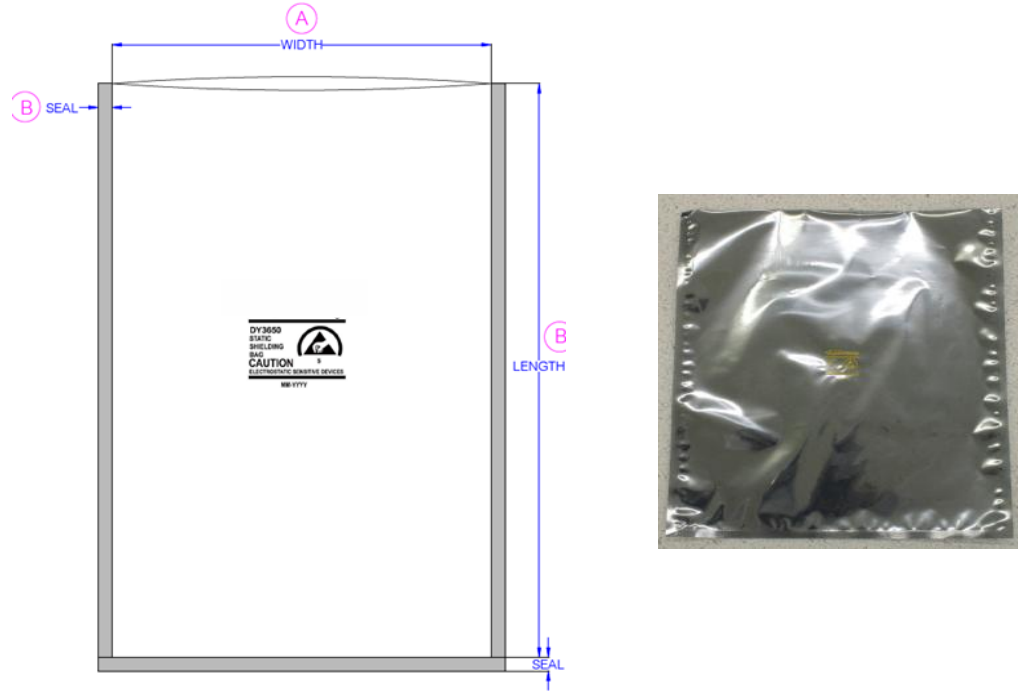
Plant	Width W (mm)	Thickness T (mm)	Color	Sealing Methodology
SIGT	9.30 ± 0.10	0.052 ±0.005	Clear	Heat sealing
MTAI	9.05 +0.05/-0.15	0.050 ±0.010	Clear	Heat sealing

Plastic Reel (8L MSOP (3x3mm) TnR)



Plant	Reel Diameter (mm)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
SIGT	330 $\pm$ 2.0	102 $\pm$ 2.0	18.20	White
MTAI	330 $\pm$ 2.0	100 $\pm$ 2.0	18.40	Dark Blue

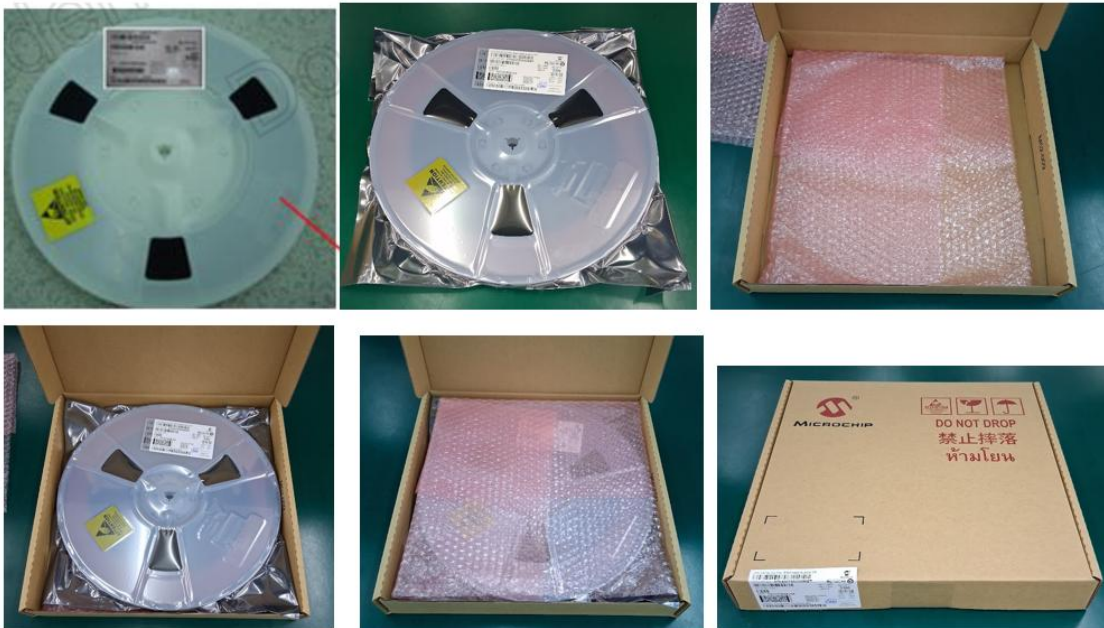
Bag (8L MSOP (3x3mm))

SIGT			MTAI		
					

Plant	MSL	Bag type	Length (mm)	Width (mm)	Thickness (mm)
SIGURD	MSL-1	Static Shielding Bag	455 +5/-5	415 +5/-5	0.1 +0.01/-0.01
MTAI	MSL-1	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762

Packing Method (8L MSOP (3x3mm))

SIGT



Inner box
Dimension
W x L x H (cm)
35.6x34x5

MTAI

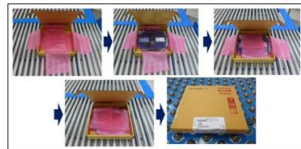


MSL-1 (No inner box)

Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Max Number of reel per carton
M01-011 (TT)	36.5x38x39.5	15
M01-013 (B2)	35.5x35.5x4	2
M01-014 (B3)	35.5x35.5x6	3
M01-015 (B8)	35.5x35.5x16.5	8

Example: Packing for tape and reel in carton box B2/ B3.(Sample)



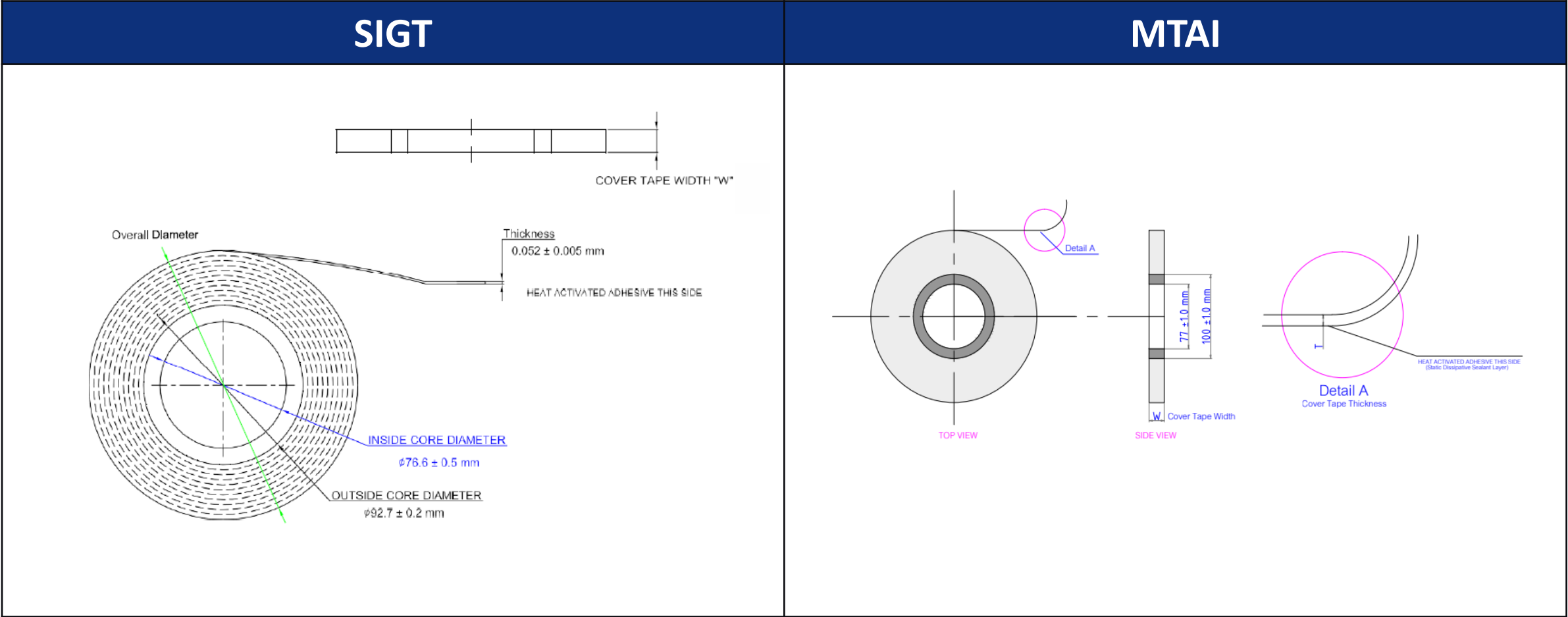
Packing for tape and reel in carton box B8.(Sample)



Packing for tape and reel in carton box TT

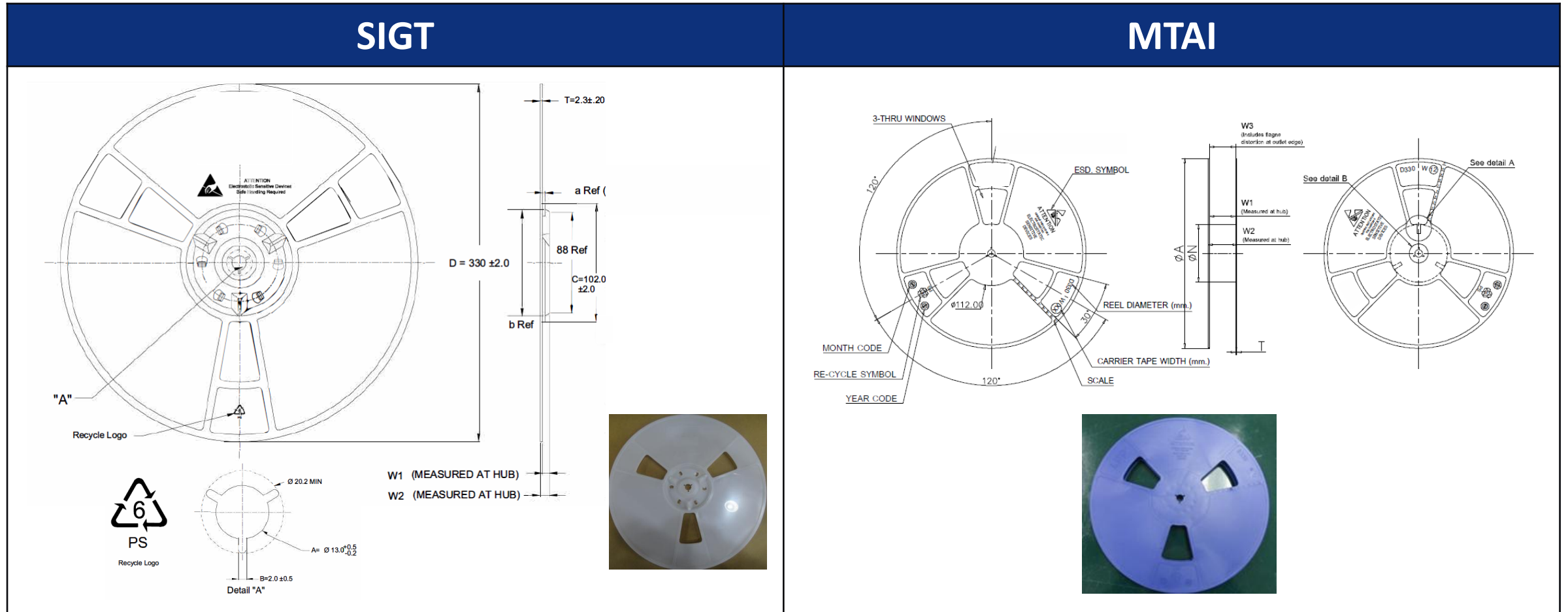


Cover Tape (10L VDFN (3x3x0.9mm) TnR)



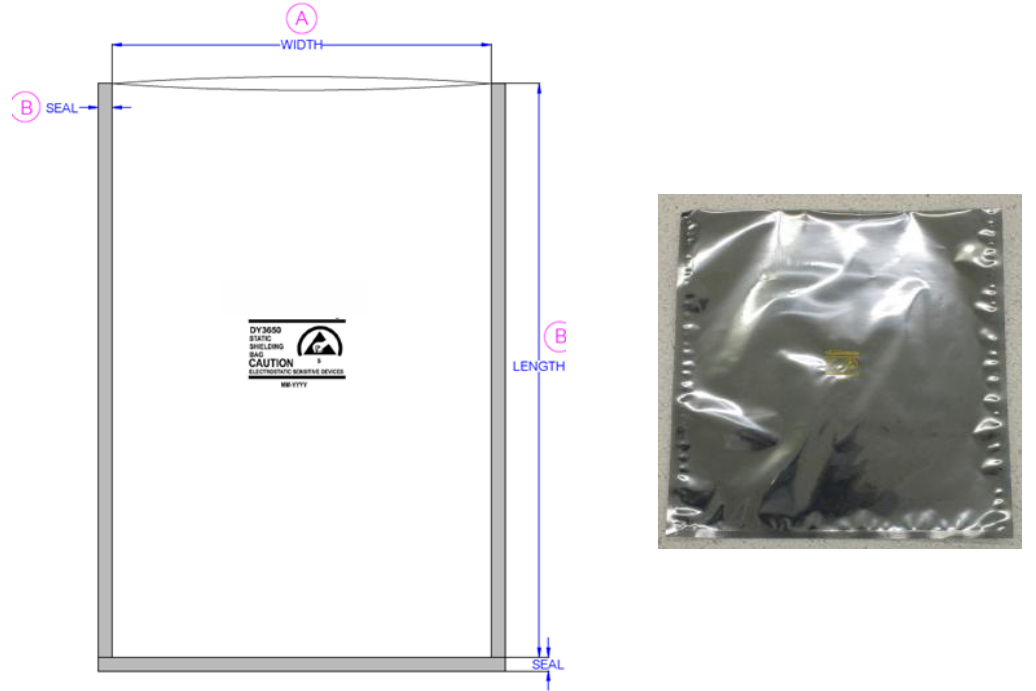
Plant	Width W (mm)	Thickness T (mm)	Color	Sealing Methodology
SIGURD	9.30 ± 0.10	0.052 ±0.005	Clear	Heat sealing
MTAI	9.05 +0.05/-0.15	0.050 ±0.010	Clear	Heat sealing

Plastic Reel (10L VDFN (3x3x0.9mm) TnR)



Plant	Reel Diameter (mm)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
SIGURD	330 ±2.0	102 ±2.0	18.20	White
MTAI	330 ±2.0	100 ±2.0	18.40	Dark Blue

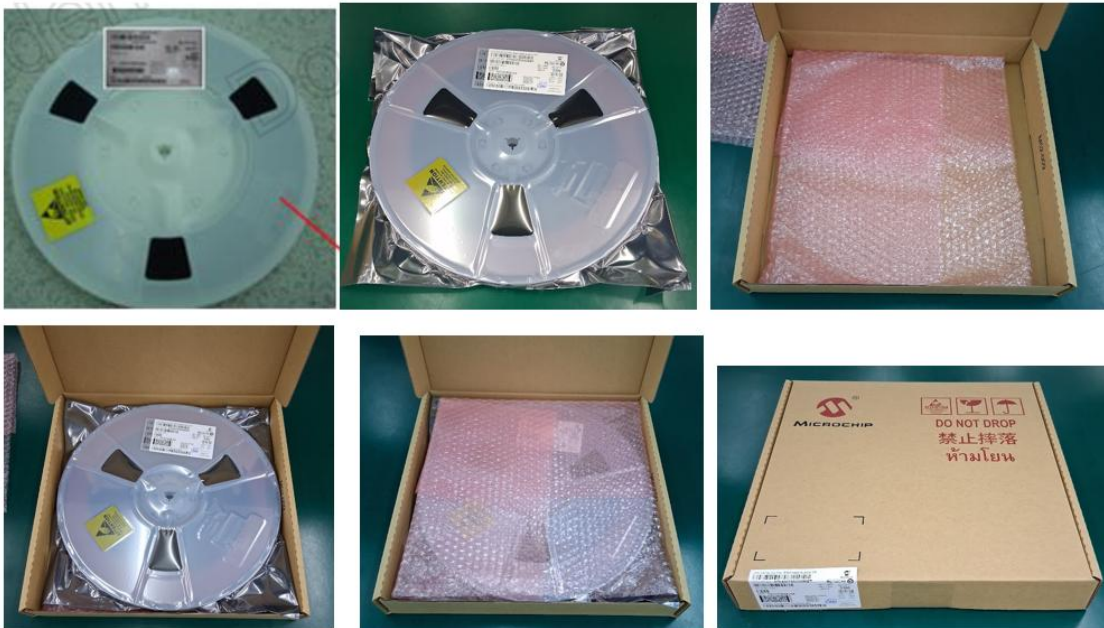
Bag (10L VDFN (3x3x0.9mm))

SIGT			MTAI		
					

Plant	MSL	Bag type	Length (mm)	Width (mm)	Thickness (mm)
SIGURD	MSL-1	Static Shielding Bag	455 +5/-5	415 +5/-5	0.1 +0.01/-0.01
MTAI	MSL-1	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762

Packing Method (10L VDFN (3x3x0.9mm))

SIGT



Inner box
Dimension
W x L x H (cm)
35.6x34x5

MTAI

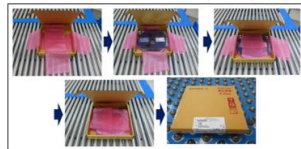


MSL-1 (No inner box)

Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Max Number of reel per carton
M01-011 (TT)	36.5x38x39.5	15
M01-013 (B2)	35.5x35.5x4	2
M01-014 (B3)	35.5x35.5x6	3
M01-015 (B8)	35.5x35.5x16.5	8

Example: Packing for tape and reel in carton box B2/ B3.(Sample)



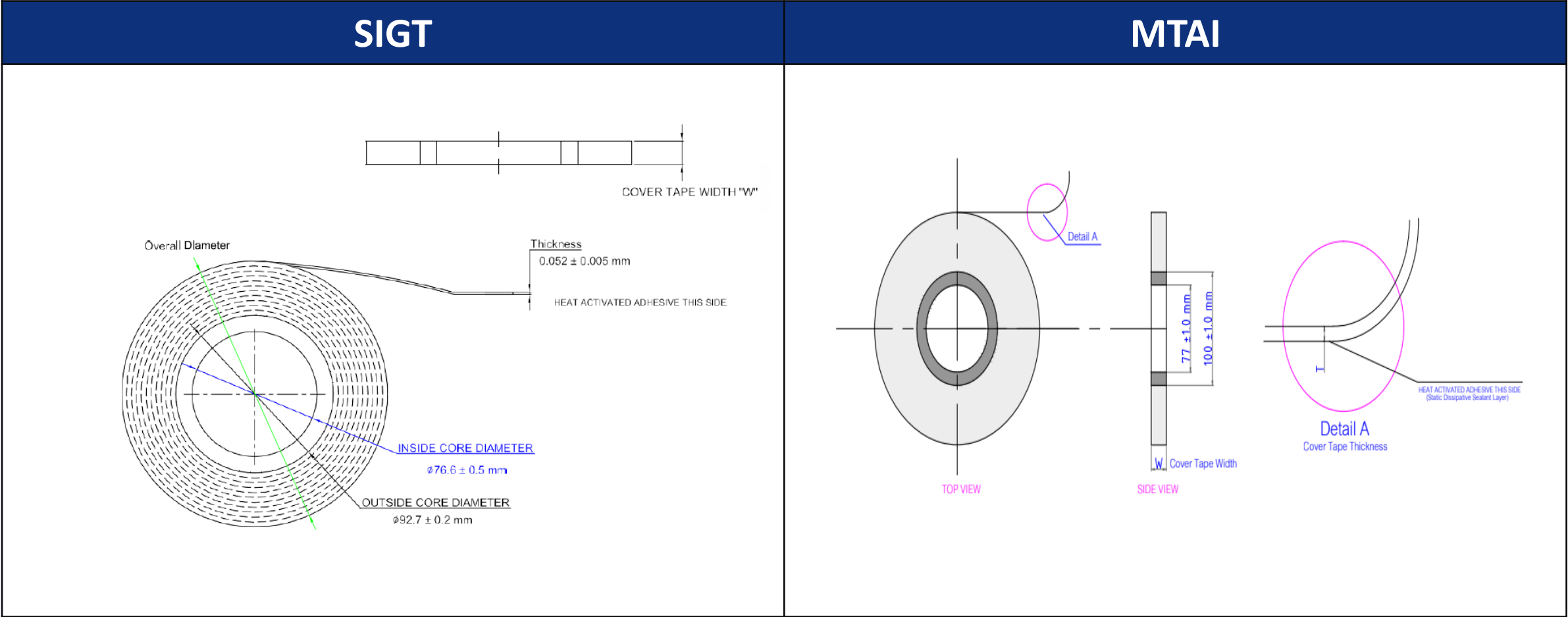
Packing for tape and reel in carton box B8.(Sample)



Packing for tape and reel in carton box TT

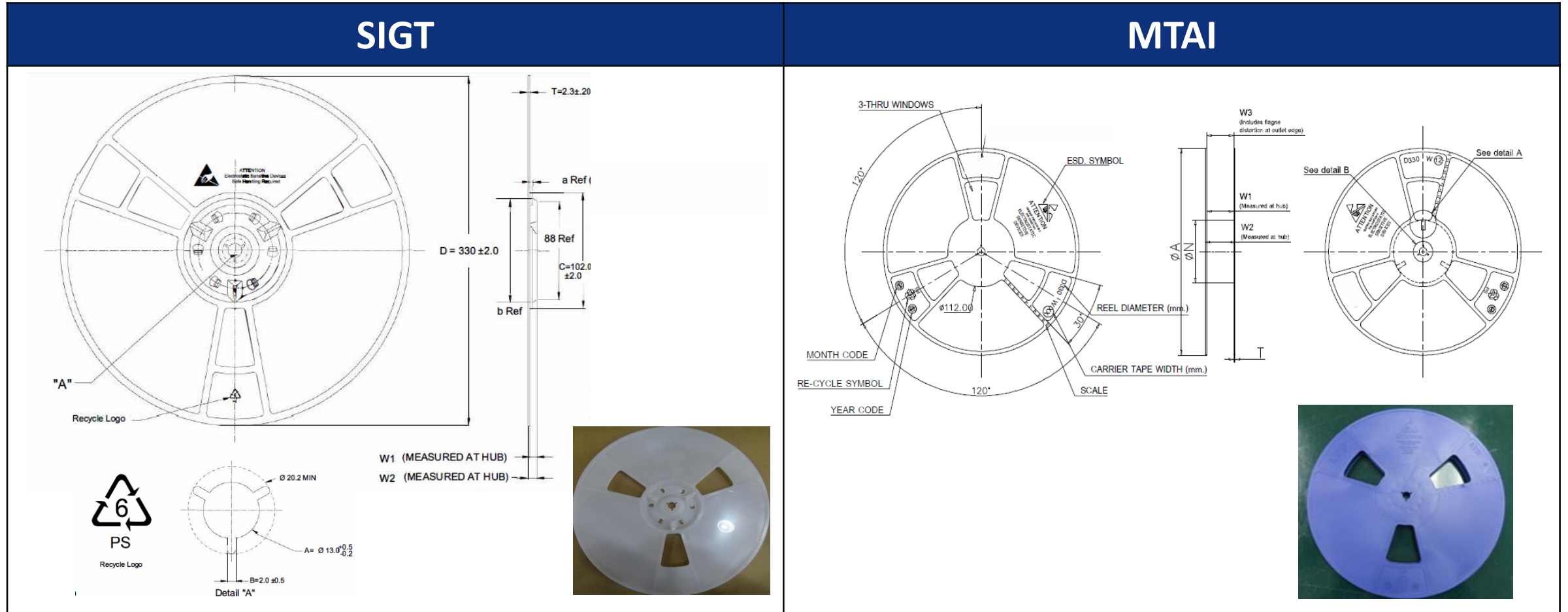


Cover Tape (10L MSOP (3x3mm) TnR)



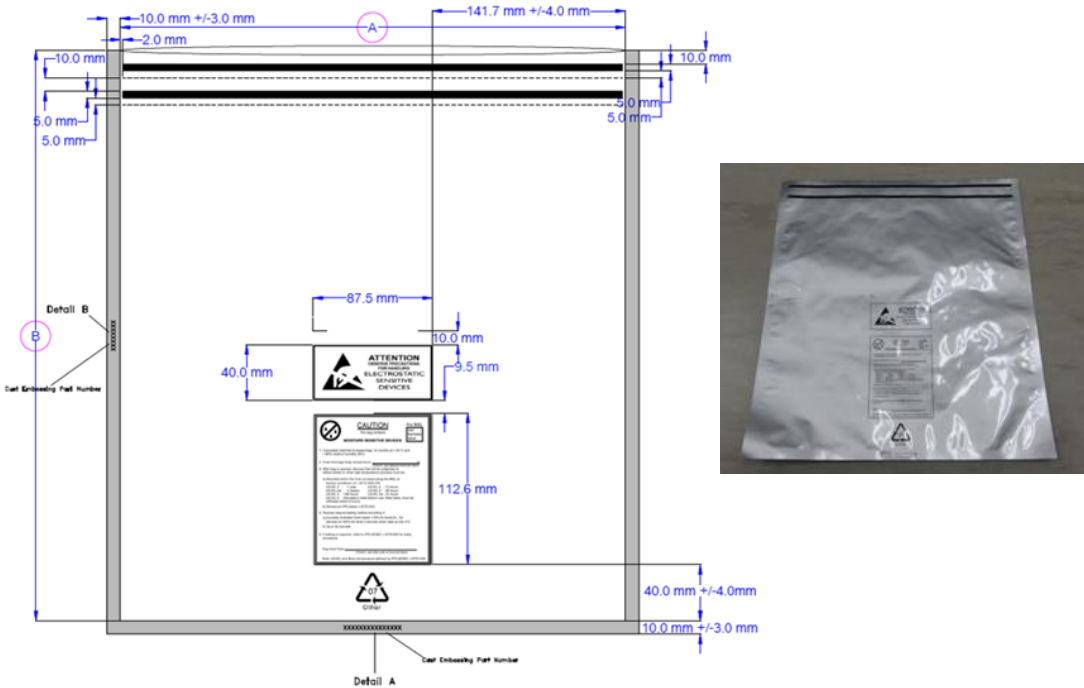
Plant	Width W (mm)	Thickness T (mm)	Color	Sealing Methodology
SIGT	9.30 ± 0.10	0.052 ±0.005	Clear	Heat sealing
MTAI	9.05+0.05/-0.15	0.050 ±0.010	Clear	Heat sealing

Plastic Reel (10L MSOP (3x3mm) TnR)



Plant	Reel Diameter (mm)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
SIGT	330 $\pm$ 2.0	102 $\pm$ 2.0	18.20	White
MTAI	330 $\pm$ 2.0	100 $\pm$ 2.0	18.40	Dark Blue

Bag (10L MSOP (3x3mm))

SIGT	MTAI
	

Plant	MSL	Bag type	Length (mm)	Width (mm)	Thickness (mm)
SIGT	MSL-2	Moisture Barrier Bag	450 +3/-3	420 +3/-3	0.180 ±0.01
MTAI	MSL-2	Moisture Barrier Bag	420 +6/-0	370 +6/-0	0.1016

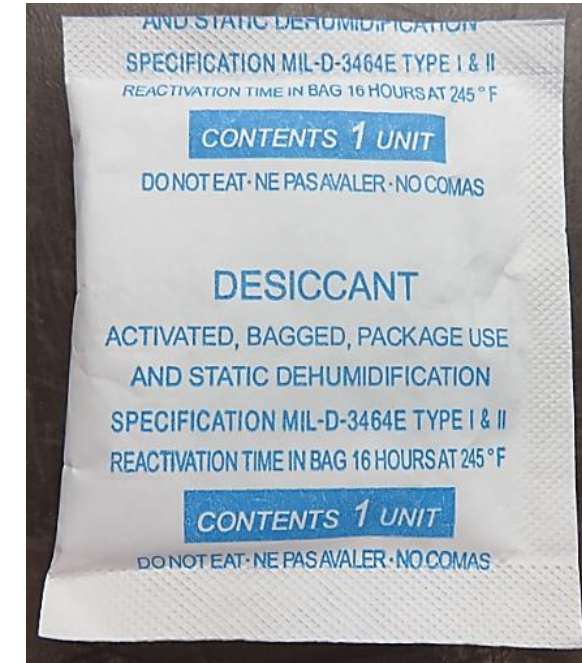
Desiccant (10L MSOP (3x3mm))

SIGT



Desiccant each unit is 33 g

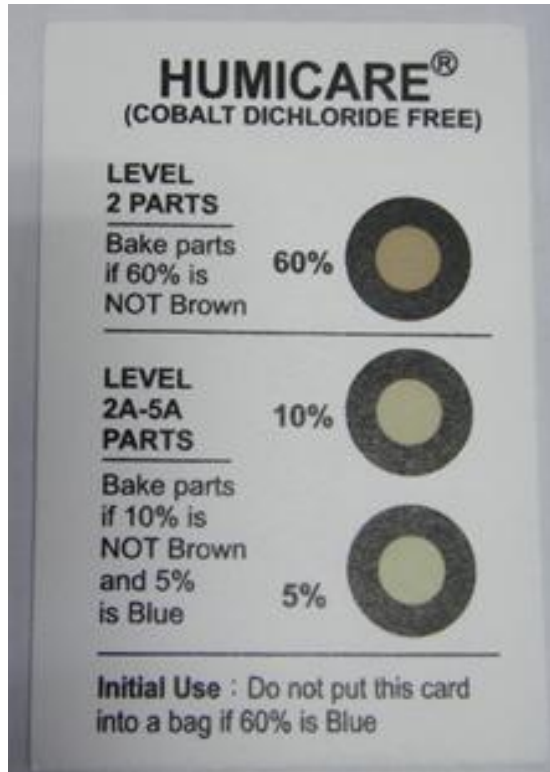
MTAI



Desiccant each unit is 33g

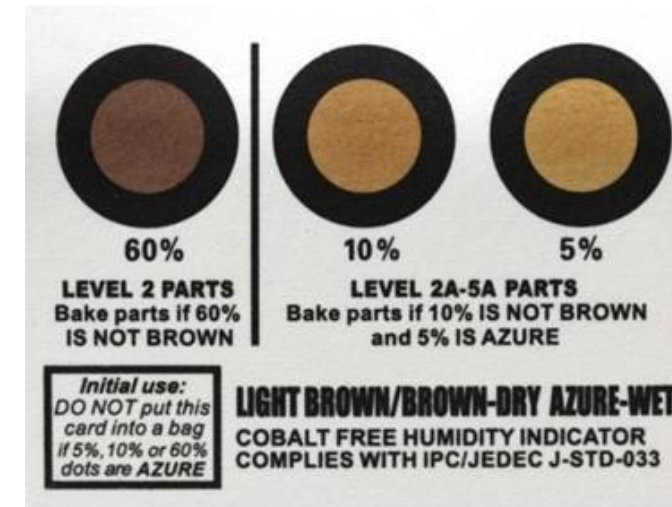
HIC (10L MSOP (3x3mm))

SIGT



- 3 Dots (5%, 10%, 60%)
- Cobalt Free

MTAI



- 3 Dots (5%, 10%, 60%)
- Cobalt Free

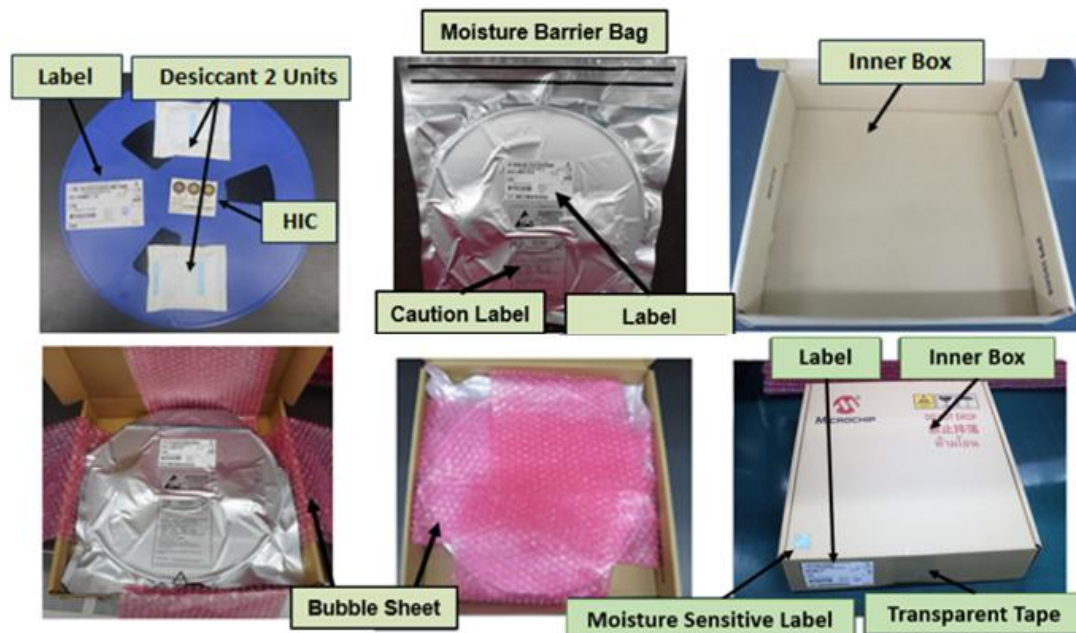
Packing Method (10L MSOP (3x3mm))

SIGT



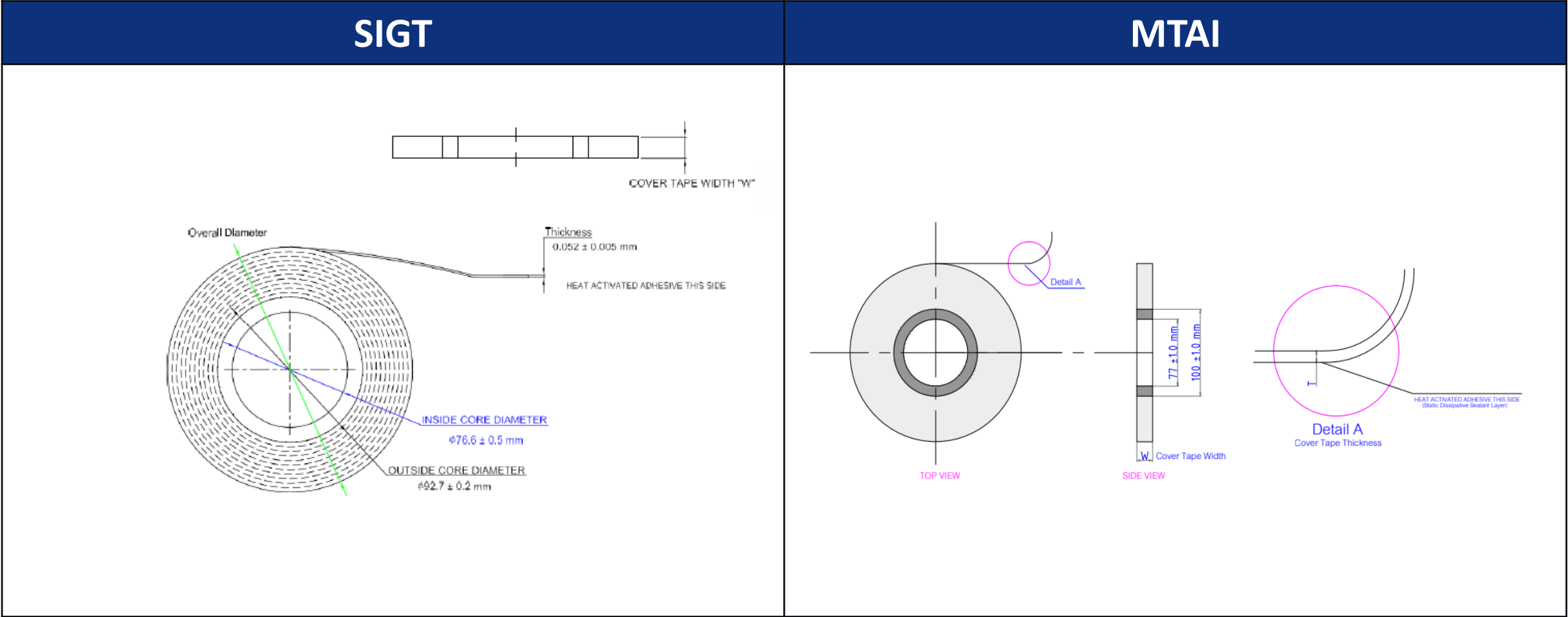
Inner box
Dimension
W x L x H (cm)
35.6x34x5

MTAI



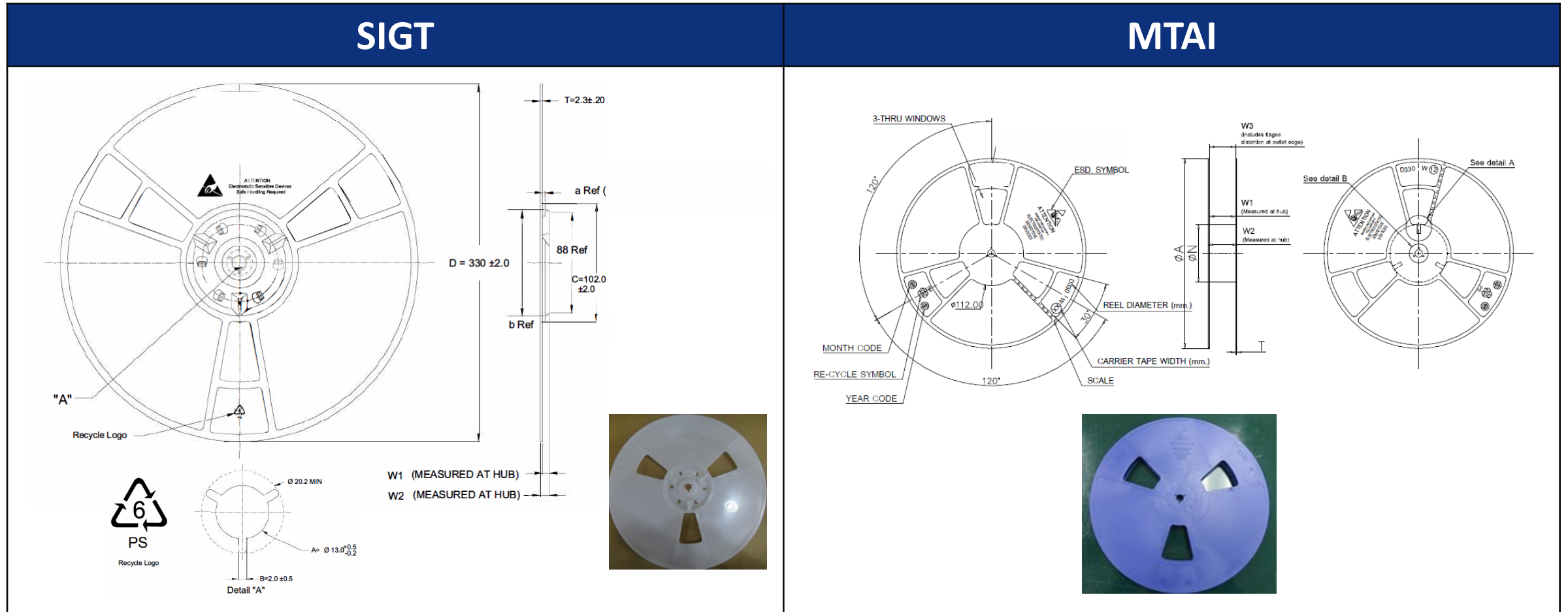
Inner box
Dimension
W x L x H (cm)
37x35.3x7.7

Cover Tape (8L TDFN (2x3x0.75mm)TnR)



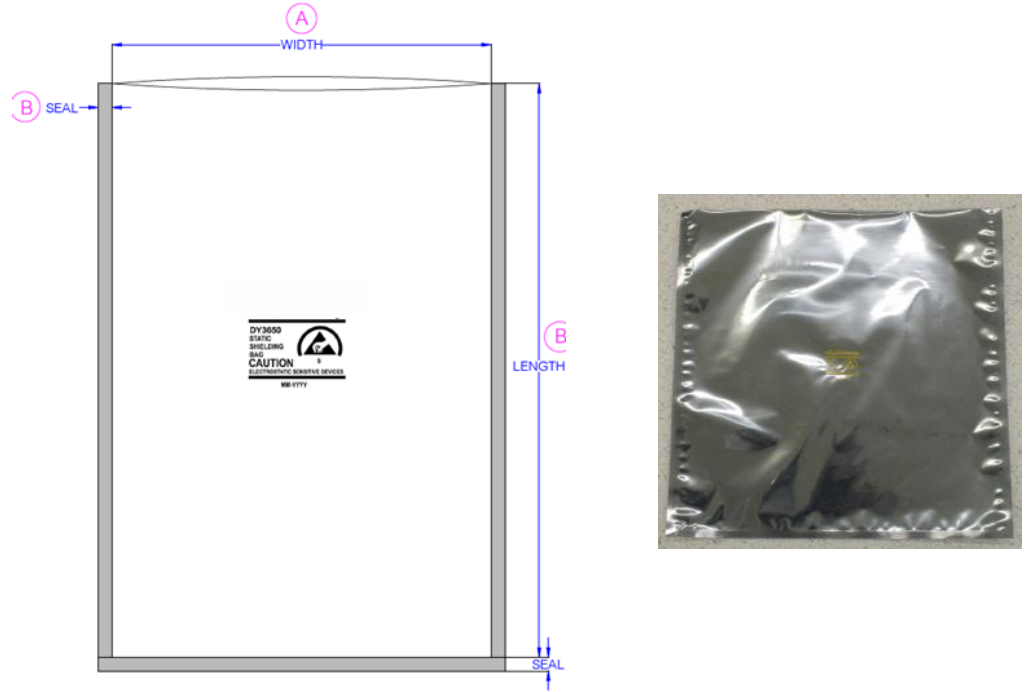
Plant	Width W (mm)	Thickness T (mm)	Color	Sealing Methodology
SIGT	9.30 ± 0.10	0.052 ±0.005	Clear	Heat sealing
MTAI	9.05+0.05/-0.15	0.050 ±0.010	Clear	Heat sealing

Plastic Reel (8L TDFN (2x3x0.75mm) TnR)



Plant	Reel Diameter (mm)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
SIGURD	330 ±2.0	102 ±2.0	18.20	White
MTAI	330 ±2.0	100 ±2.0	18.40	Dark Blue

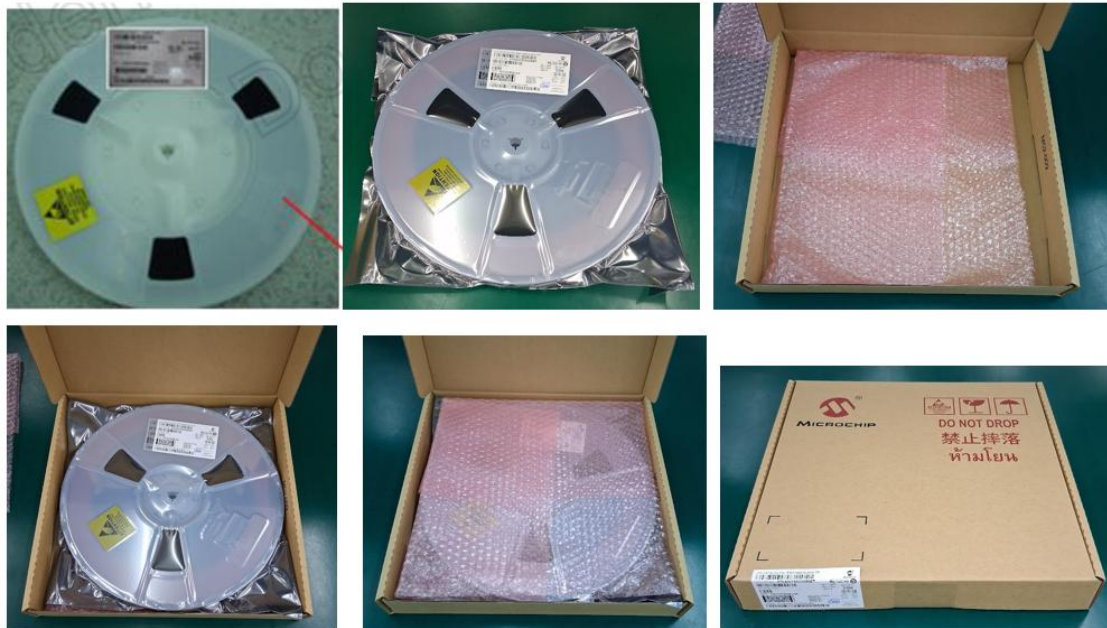
Bag (8L TDFN (2x3x0.75mm))

SIGT			MTAI		
					

Plant	MSL	Bag type	Length (mm)	Width (mm)	Thickness (mm)
SIGURD	MSL-1	Static Shielding Bag	455 +5/-5	415 +5/-5	0.1 +0.01/-0.01
MTAI	MSL-1	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762

Packing Method (8L TDFN (2x3x0.75mm))

SIGT



Inner box
Dimension
W x L x H (cm)
35.6x34x5

MTAI

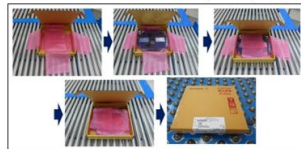


MSL-1 (No inner box)

Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Max Number of reel per carton
M01-011 (TT)	36.5x38x39.5	15
M01-013 (B2)	35.5x35.5x4	2
M01-014 (B3)	35.5x35.5x6	3
M01-015 (B8)	35.5x35.5x16.5	8

Example: Packing for tape and reel in carton box B2/ B3.(Sample)



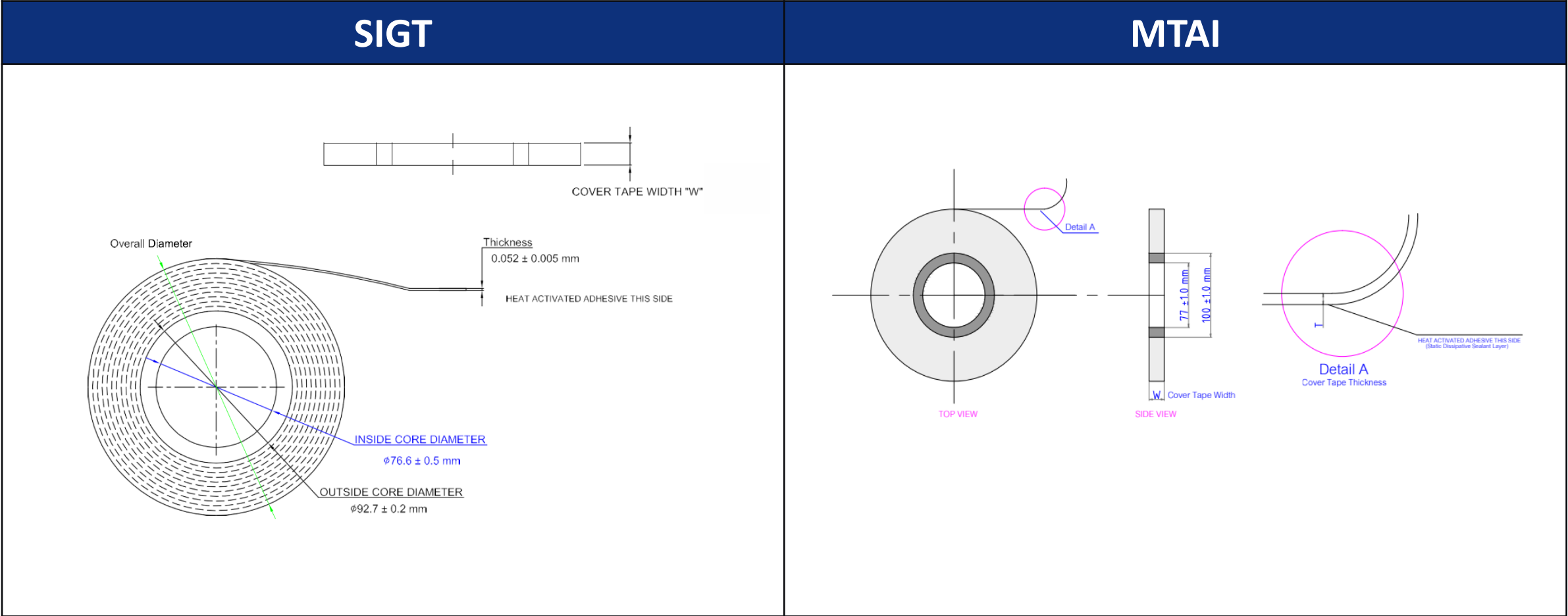
Packing for tape and reel in carton box B8.(Sample)



Packing for tape and reel in carton box TT

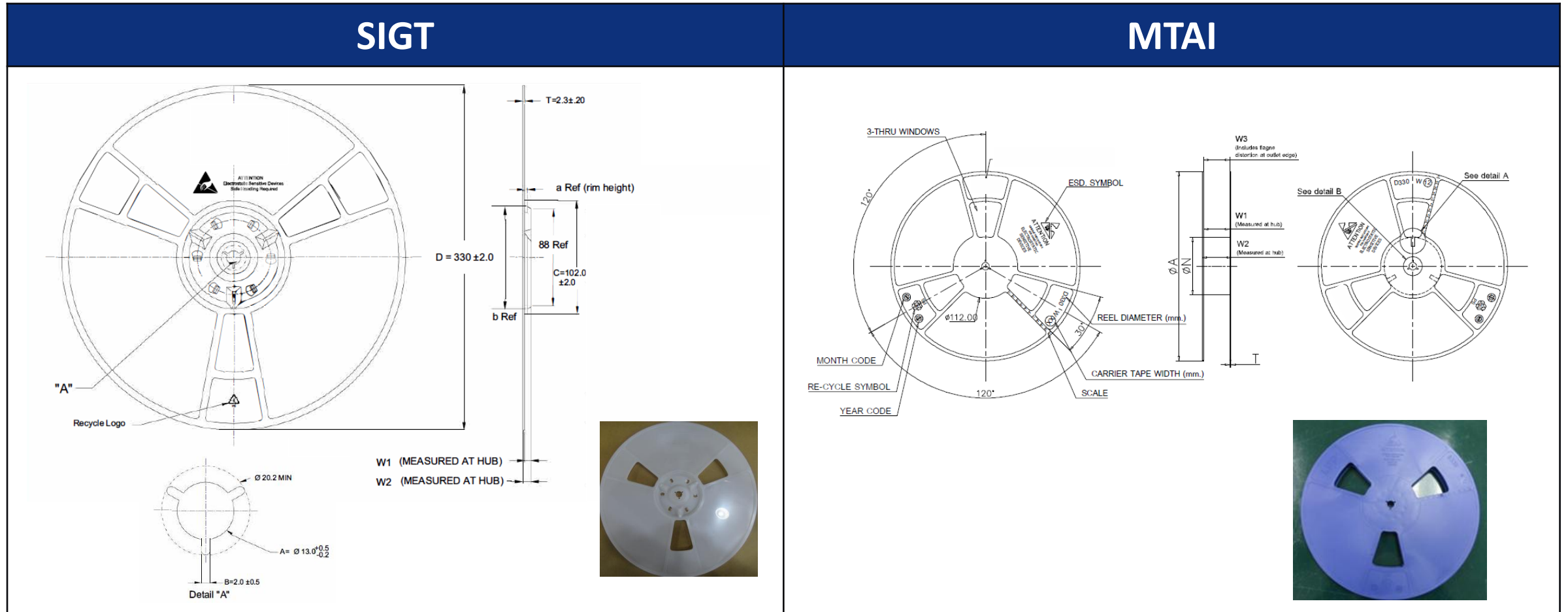


Cover Tape (10L MSOP (3x3x1.0mm) TnR)



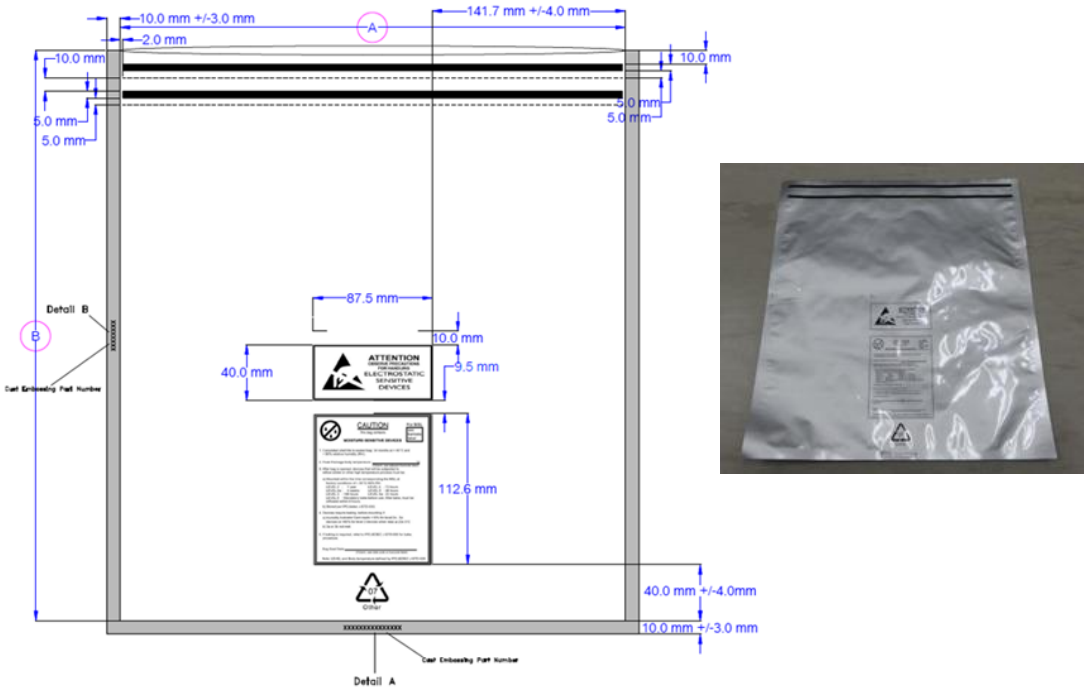
Plant	Width W (mm)	Thickness T (mm)	Color	Sealing Methodology
SIGT	9.30 ± 0.10	0.052 ±0.005	Clear	Heat sealing
MTAI	9.05 +0.05/-0.15	0.050 ±0.010	Clear	Heat sealing

Plastic Reel (10L MSOP (3x3x1.0mm) TnR)



Plant	Reel Diameter (mm)	Reel Hub Size (mm)	Reel Width Max (mm)	Color
SIGT	330 ±2.0	102 ±2.0	18.20	White
MTAI	330 ±2.0	100 ±2.0	18.40	Dark Blue

Bag (10L MSOP (3x3x1.0mm))

SIGT	MTAI
	

Plant	MSL	Bag type	Length (mm)	Width (mm)	Thickness (mm)
SIGT	MSL-2	Moisture Barrier Bag	450 +3/-3	420 +3/-3	0.180 ±0.01
MTAI	MSL-2	Moisture Barrier Bag	420 +6/-0	370 +6/-0	0.1016

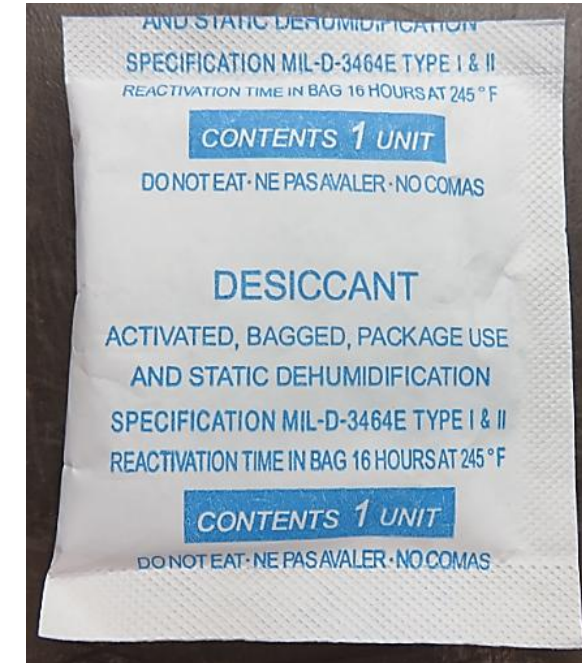
Desiccant (10L MSOP (3x3x1.0mm))

SIGT



Desiccant each unit is 33 g

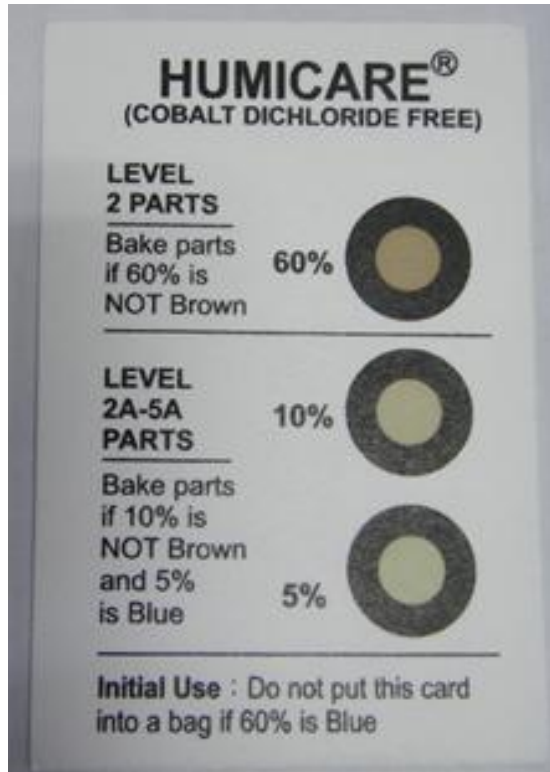
MTAI



Desiccant each unit is 33g

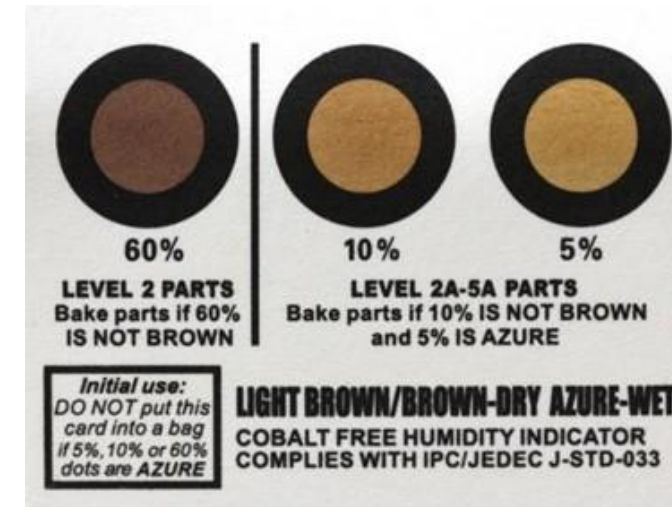
HIC (10L MSOP (3x3x1.0mm))

SIGT



- 3 Dots (5%, 10%, 60%)
- Cobalt Free

MTAI



- 3 Dots (5%, 10%, 60%)
- Cobalt Free

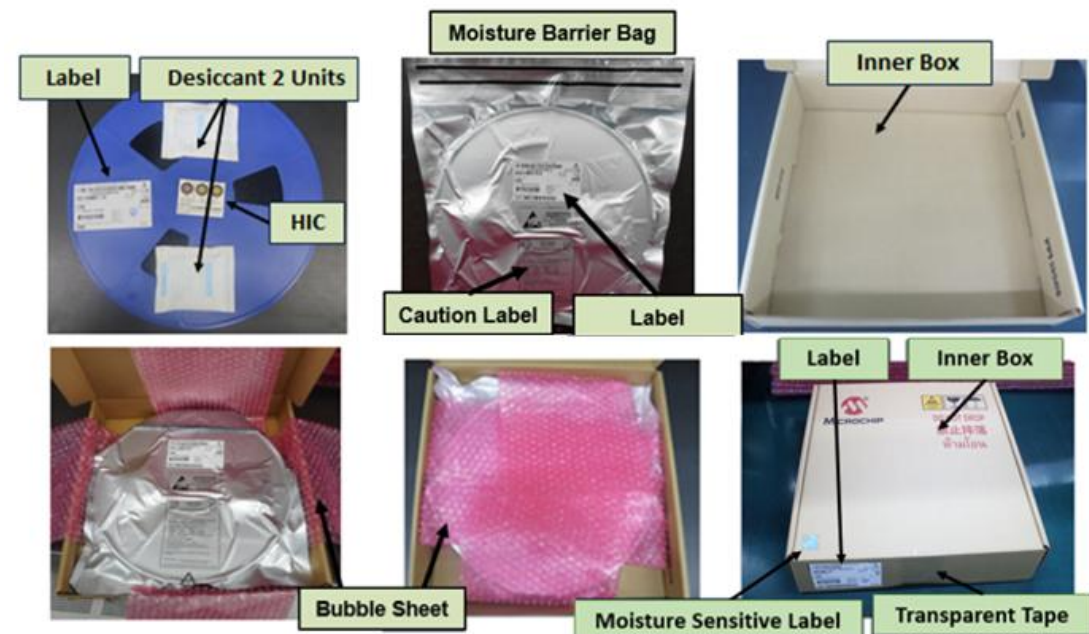
Packing Method (10L MSOP (3x3x1.0mm))

SIGT



Inner box
Dimension
W x L x H (cm)
35.6x34x5

MTAI



Inner box
Dimension
W x L x H (cm)
37x35.3x7.7



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: CAAN-14BMUP085

**Date:
June 25, 2026**

Qualification of MTAI as a new final test site and scan and pack site for selected EMC1402, EMC1412, EMC1422, EMC1072, EMC1413, EMC1403, EMC1404, EMC1423, EMC1414, EMC1424, EMC1073, EMC1074, EMC1046, EMC1047, EMC1442, EMC1462, EMC1444, EMC1464, MCP9903, MCP9904, EMC1438, EMC1428, EMC2103-4 and EMC2103-2 device families available in various packages.



Purpose: Qualification of MTAI as a new final test site and scan and pack site for selected EMC1402, EMC1412, EMC1422, EMC1072, EMC1413, EMC1403, EMC1404, EMC1423, EMC1414, EMC1424, EMC1073, EMC1074, EMC1046, EMC1047, EMC1442, EMC1462, EMC1444, EMC1464, MCP9903, MCP9904, EMC1438, EMC1428, EMC2103-4 and EMC2103-2 device families available in various packages.

CCB No.: 8312

Test / Evaluation	Test Condition / Parameters	Sample Size	Lot Qty	Acceptable Fail Criteria
Bin-to-Bin and Yield Correlation	• Send 3,000 tested devices of the qualification vehicle from the original site to the new site. • Retest these units using the same test flow, and sort good and rejected devices into separate bins. • Compare bin and yield results from both sites, result must be within $\pm 0.1\%$.	3,000	1	$\leq 0.1\%$
Parametric Correlation	• Test 33 good devices at the original site using the test program covering datasheet DC parameters • Send these devices to the new site and retest them with the same test coverage • Results should be within $\pm 10\%$ of the original site's values	33	1	$< 10\%$
Cross-Correlation	• 33 untested units will be sent to MTAI for trim validation. All units, including rejects, will then be returned to SIGT for QC testing. Acceptance will be based on bin and yield comparison.	33	1	$\leq 0.1\%$