



Product Change Notification / BLAS-18YLUC092

Date:

19-Apr-2023

Product Category:

Memory

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6206 and 2743.002 Final Notice: Qualification of MTAI as an additional assembly site and test location for selected AT25256Bxx, AT24C512xx, AT24CM01xx, and AT25M01xx device families available in 8L SOIJ (.208in) package.

Affected CPNs:

[BLAS-18YLUC092_Affected_CPN_04192023.pdf](#)

[BLAS-18YLUC092_Affected_CPN_04192023.csv](#)

Notification Text:

PCN Status:Final 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 an additional assembly site and test location for selected AT25256Bxx, AT24C512xx, AT24CM01xx, and AT25M01xx device families available in 8L SOIJ (.208in) package.

Pre and Post Change Summary:

Note: Separate PCN was issued to qualify MTAI for CPNs AT24C512C-SHD-B,

AT24C512C-SHD-T, AT24C512C-SHM-B, AT24C512C-SHM-T. Refer to PCN #

LIAL-27KKIA306

	Pre Change		Post Change		
Assembly Site	Amkor Technology Philippine (P1/P2), INC. (ANAP)		Amkor Technology Philippine (P1/P2), INC. (ANAP)		Microchip Technology Thailand (HQ) (MTAI)
Wire material	Cu	PdCu	Cu	PdCu	Au
Die attach material	8290		8290		8390A
Molding compound material	G700A		G700A		G600V
Lead frame material	CDA194		CDA194		CDA194
DAP surface plating	PPF		PPF		Bare Cu
Lead frame plating	NiPdAu		NiPdAu		Matte tin
Lead frame paddle size	128 x 164 mils		128 x 164 mils		140 x 160 mils
	See attached pre and post change comparison				

Note: This applies to all CPNs listed in the Affected CPN list.

		Pre Change	Post Change	
Final Test Site		Amkor Technology Philippine (P1/P2), INC. (ANAP)	Amkor Technology Philippine (P1/P2), INC. (ANAP)	Microchip Technology Thailand (HQ) (MTAI)
Tape and Reel	BQM	2000	2000	2000
	Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1
	Carrier Tape	Minor dimension change. See pre and post change for comparison.		
	Cover Tape	Minor dimension change. See pre and post change for comparison.		
	Plastic Reel	White	White	Dark Blue
		Minor dimension change. See pre and post change for comparison.		
	Packing Static Sensitive Bag	Gray	Gray	Transparent
		With dimension change. See pre and post change for comparison.		
Packing Method	See pre and post change for comparison.			
Tube	Pin 1 Orientation	See pre and post change for comparison.		

BQM	95	95	95
Color	Green	Green	White
Tube	Minor dimension change. See pre and post change for comparison.		
Packing Method	See pre and post change for comparison.		

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve manufacturability and on-time delivery performance by qualifying MTAI as an additional assembly site and additional test location.

Change Implementation Status:In Progress

Estimated First Ship Date:June 1, 2023 (date code: 2322)

Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	April 2023					>	June 2023				
Workweek	1 3	1 4	1 5	1 6	1 7		2 2	2 3	2 4	2 5	2 6
Qual Report Availability				X							
Final PCN Issue Date				X							
Estimated Implementation Date							X				

Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History:April 19, 2023: Issued final notification.

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

Attachments:

[PCN_BLAS-18YLUC092_Pre and Post Change_Summary.pdf](#)

[PCN_BLAS-18YLUC092_Test_Qual_Report_Summary.pdf](#)

[PCN_BLAS-18YLUC092_Assembly_Qual_Report.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.



QUALIFICATION REPORT SUMMARY

PCN #: BLAS-18YLUC092

**Date:
April 11, 2023**

Qualification of MTAI as an additional assembly site and test location for selected AT25256Bxx, AT24C512xx, AT24CM01xx, and AT25M01xx device families available in 8L SOIJ (.208in) package.

Purpose: Qualification of MTAI as an additional assembly site and test location for selected AT25256Bxx, AT24C512xx, AT24CM01xx, and AT25M01xx device families available in 8L SOIJ (.208in) package.

CCB No. : 6206 and 2743.002

Test	Assembly lot	Wafer lot	Step	Result
I2C Correlation	MTAI233302771.000	MCSO519071706.000	Final Test @25C	PASSED
			100% QC @25C	
	MTAI233302772.000	MCSO519248719.000	Final Test @25C	
			100% QC @25C	

Test	Assembly lot	Wafer lot	Step	Result
SPI Correlation	MTAI233202421.000	MCSO519050724.000	Final test @25C	Passed
			100% QC @25C	
	MTAI233202422.000	MCSO519050814.000	Final test @25C	
			100% QC @25C	
	MTAI233102668.000	MCSO522507941.200	Final test @25C	
			100% QC @25C	

CCB 6406 and 2743.002

Pre and Post Change Summary

PCN# BLAS-18YLUC092



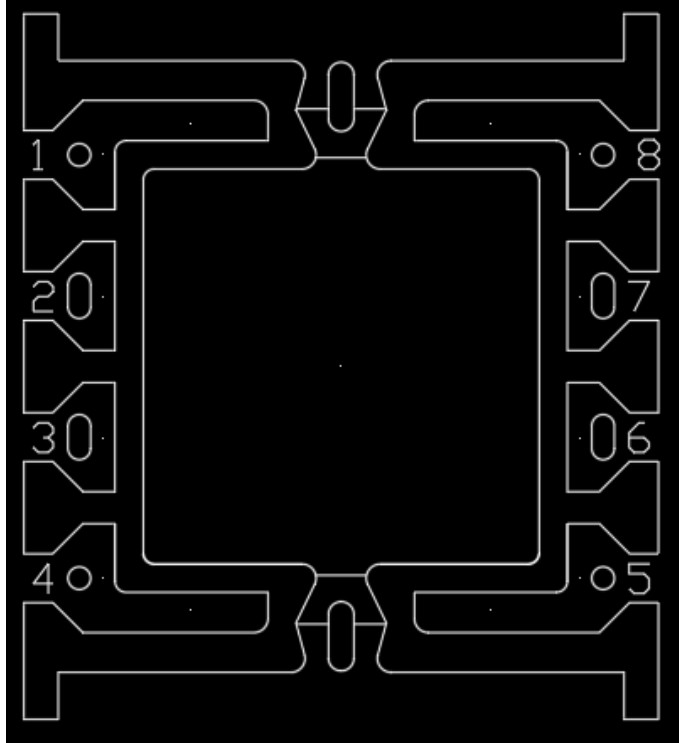
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

LEAD FRAME COMPARISON

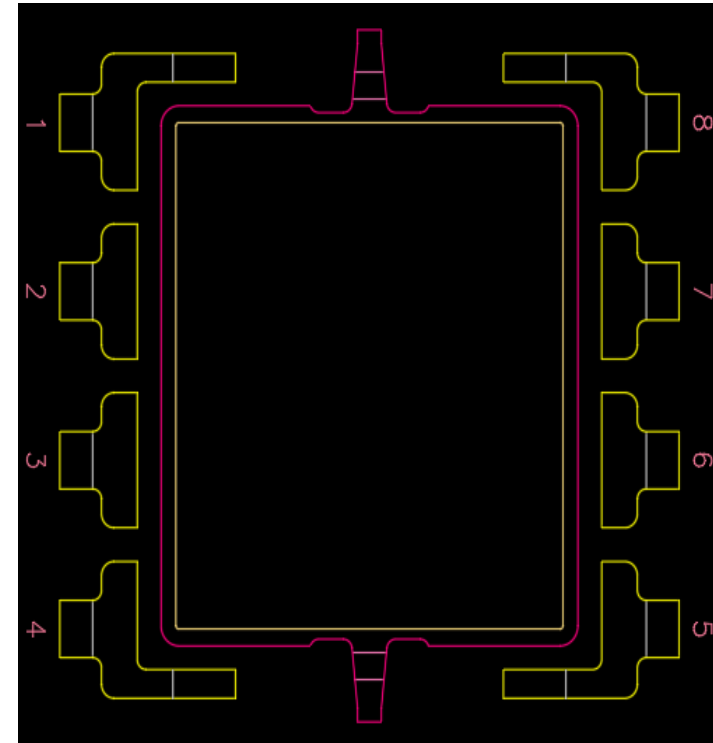
ANAP



Note: Not to scale

Lead frame Material	CDA194	
Lead-Frame Paddle Size	128 x 164 mils	
Lead Plating	NiPdAu	
Wire Material	Cu	PdCu

MTAI

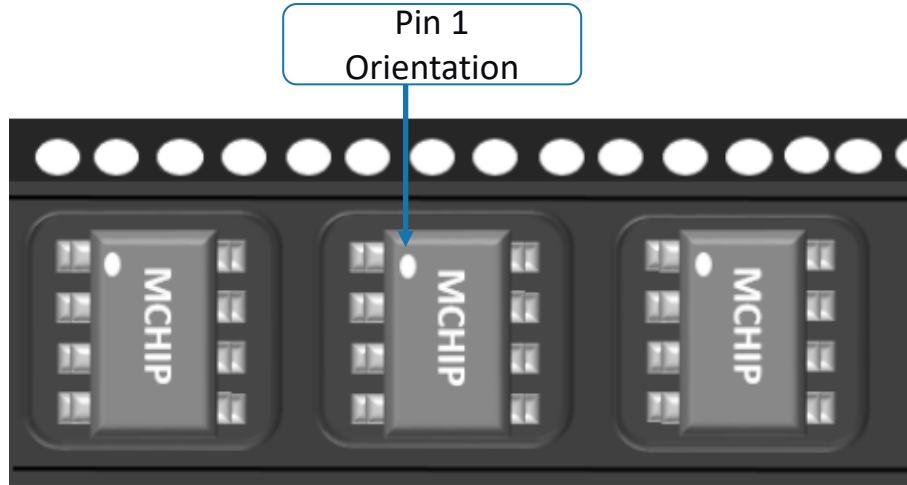


Note: Not to scale

Lead frame Material	CDA194	
Lead-Frame Paddle Size	140 x 160 mils	
Lead Plating	Matte tin	
Wire Material	Au	

Tape and Reel Pin1 Orientation

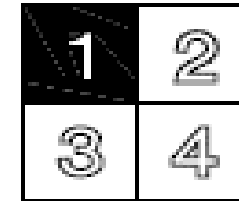
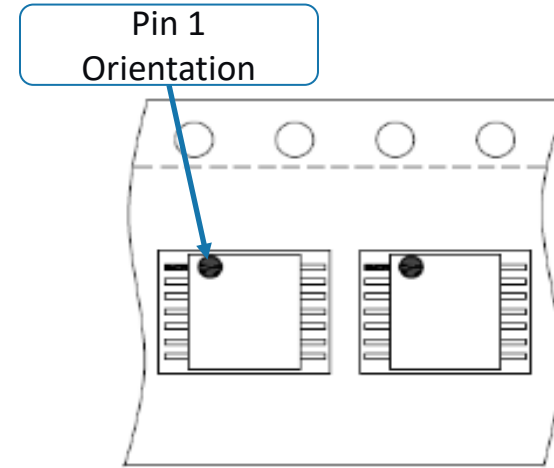
Pre Change



Pin1 Orientation

Quadrant 1

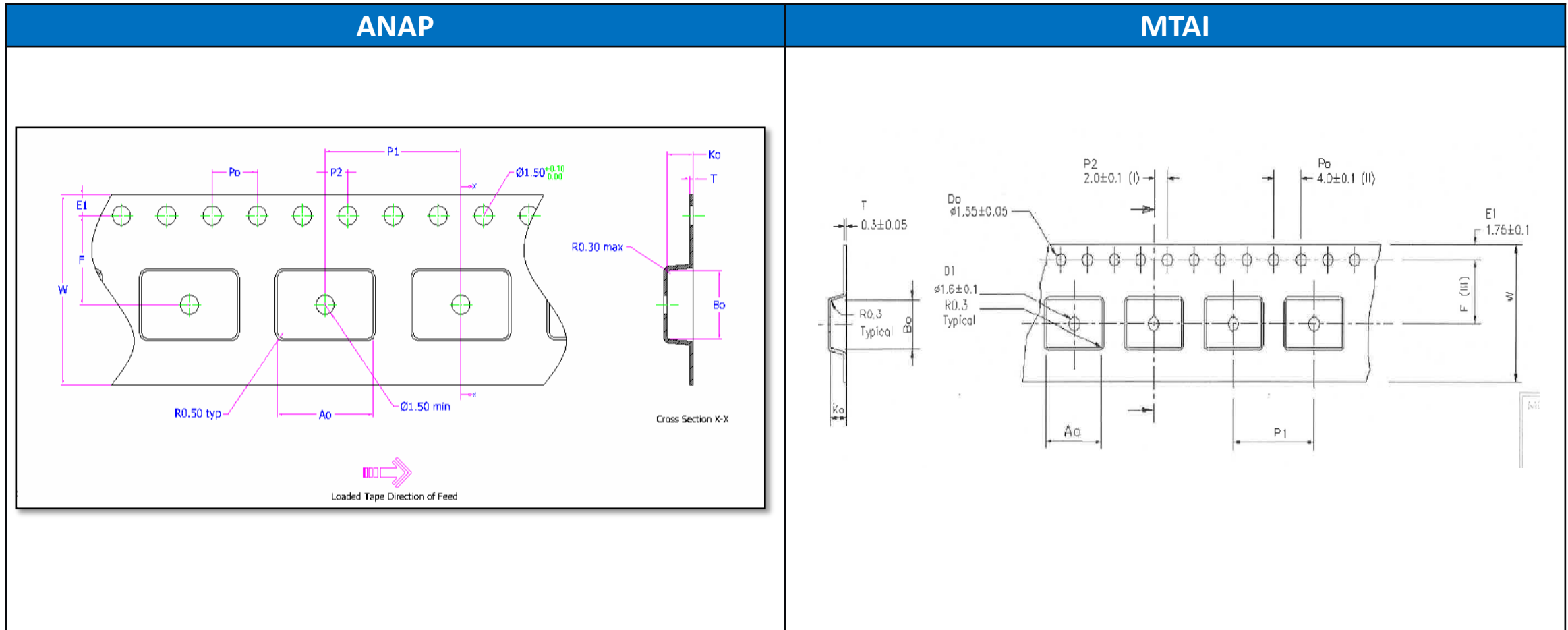
Post Change



Pin1 Orientation

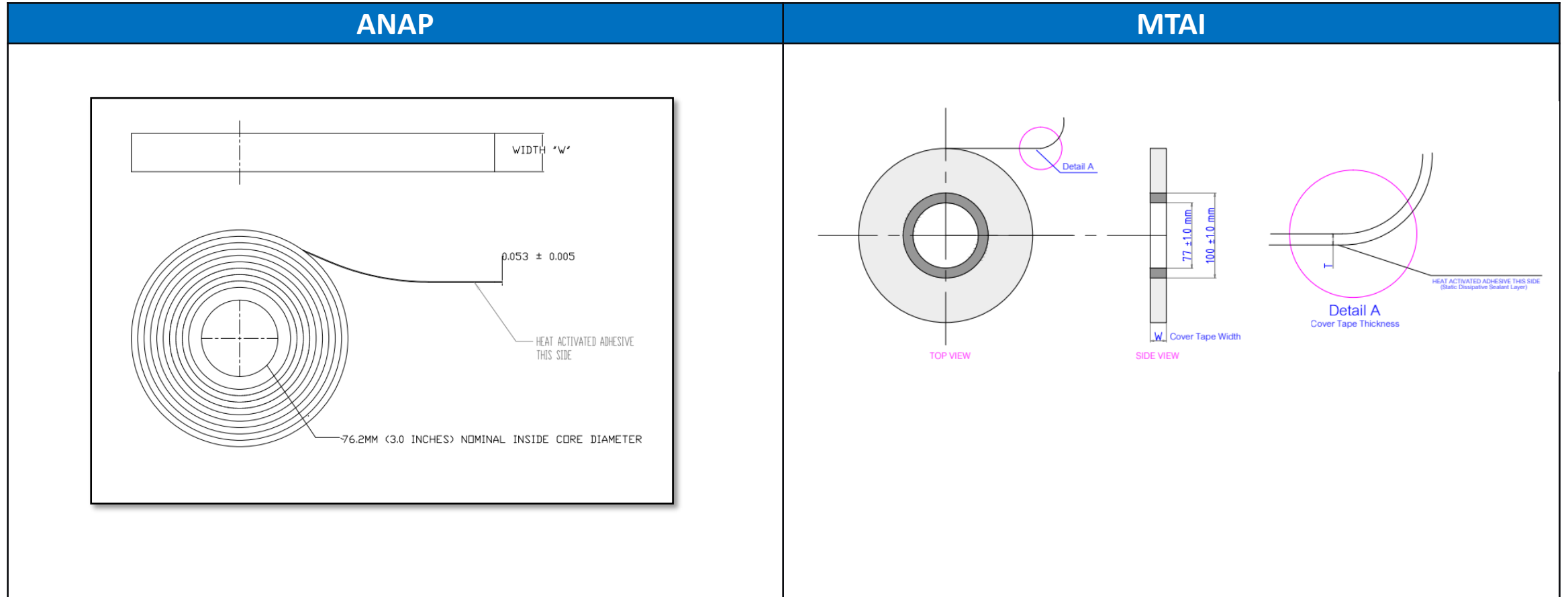
Quadrant 1

Carrier Tape



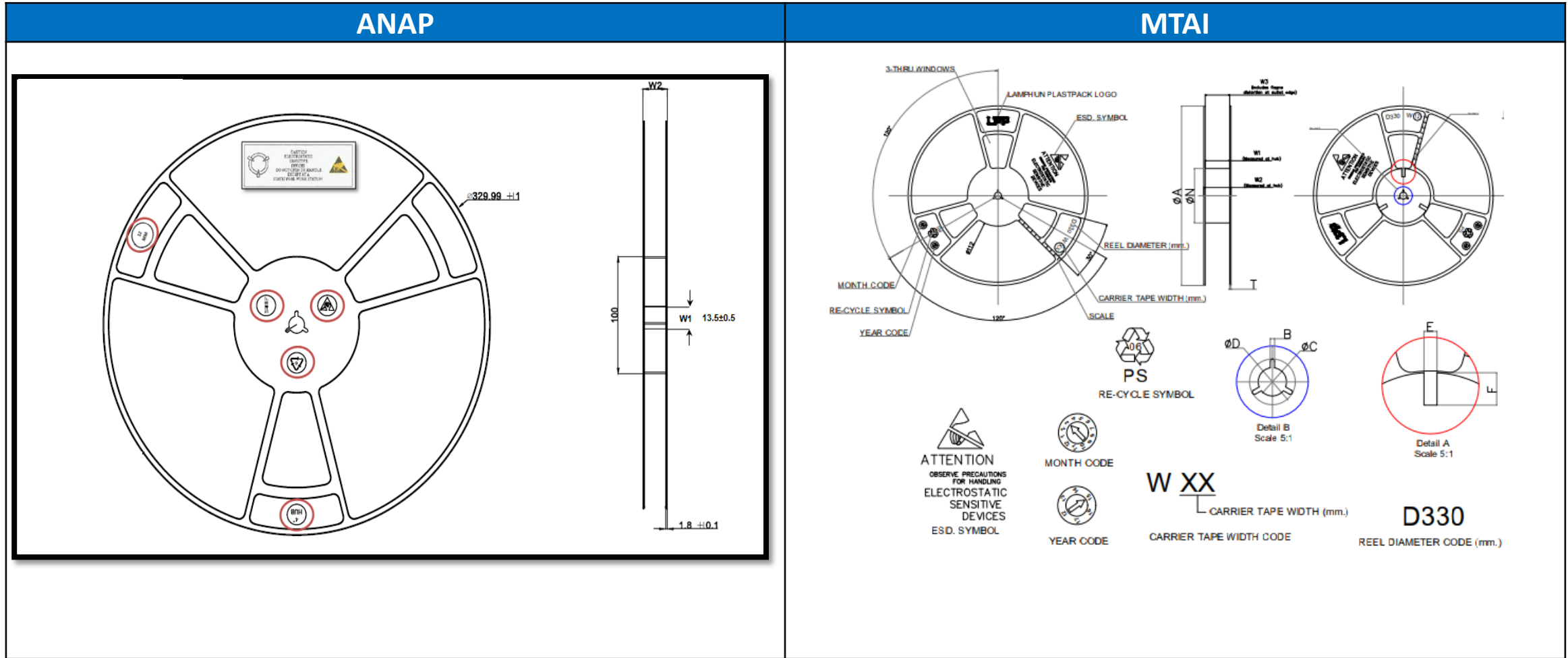
Plant	W (mm.)	P (mm.)	A0 (mm.)	B0 (mm.)	K0 (mm.)	Thickness	BQM
ANAP	16.0 (+0.30, -0.10)	12.00 (± 0.10)	8.45 ± 0.10	5.70 (± 0.10)	2.35 ± 0.10	0.30 ± 0.05	2000
MTAI	16 ± 0.3	12 ± 0.1	8.30 ± 0.1	5.70 ± 0.1	2.30 ± 0.1	0.3 ± 0.05	2000

Cover Tape



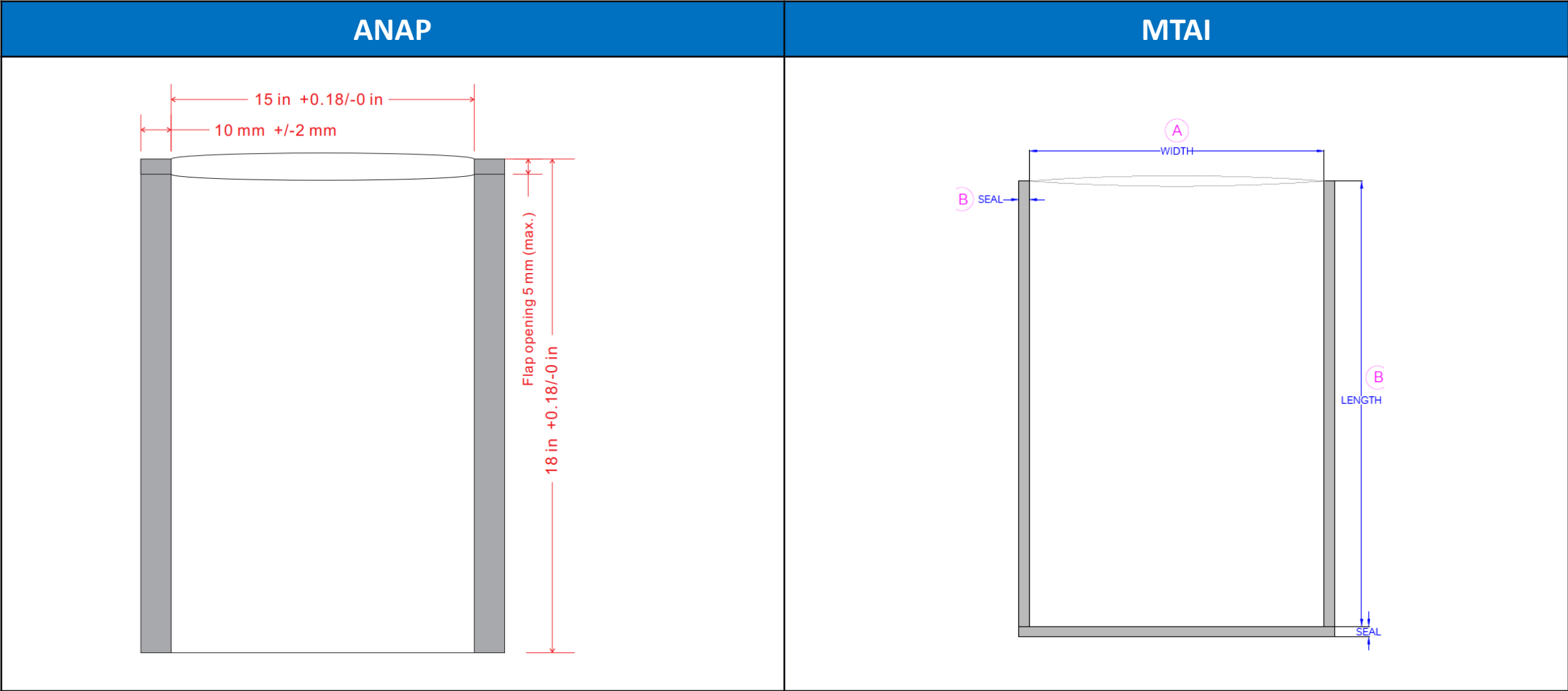
Plant	Width W (mm.)	Thickness T (mm.)	Colour	Sealing Methodology
ANAP	13.3 ± 0.10	0.053 ± 0.005	Gray	Heat Seal/ Heat Activated
MTAI	13.3 ± 0.1	0.050 ± 0.010	Clear	Heat Seal

Plastic Reel



Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Colour
ANAP	329.99 ± 1	100	19.4 ± 0.8	White
MTAI	330 +/- 2.0	100 +/- 2.0	22.40 Max	Dark Blue

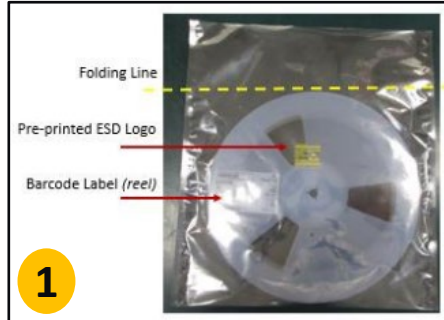
TAPE & REEL Packing Static Sensitive Bag



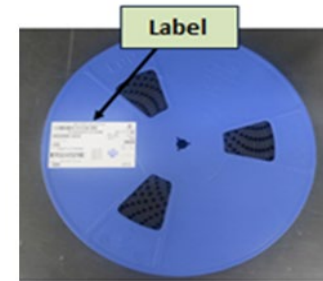
Plant	Length (mm)	Width (mm)	Thickness (mils)	Colour
ANAP	457.2 +4.57/-0.00	381.0 +4.57/-0.00	3.0 ±0.3	Gray
MTAI	420 +5.0/-0.0	370 +5.0/-0.0	3.0 ±0.3	Transparent

T/R Packing Method

ANAP

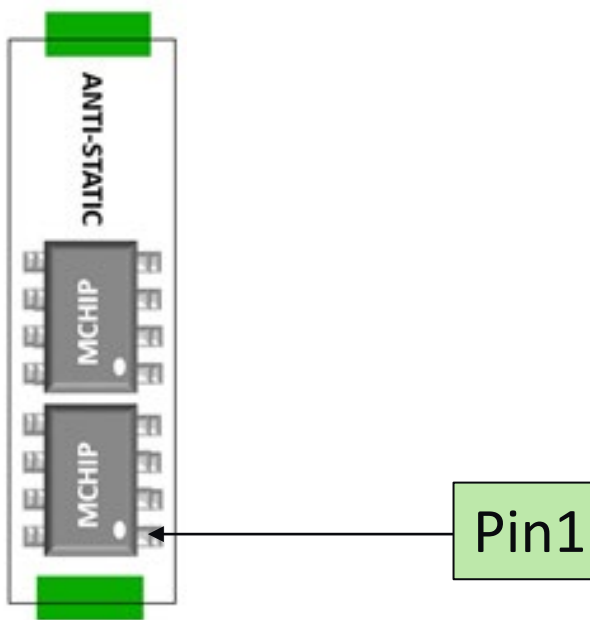
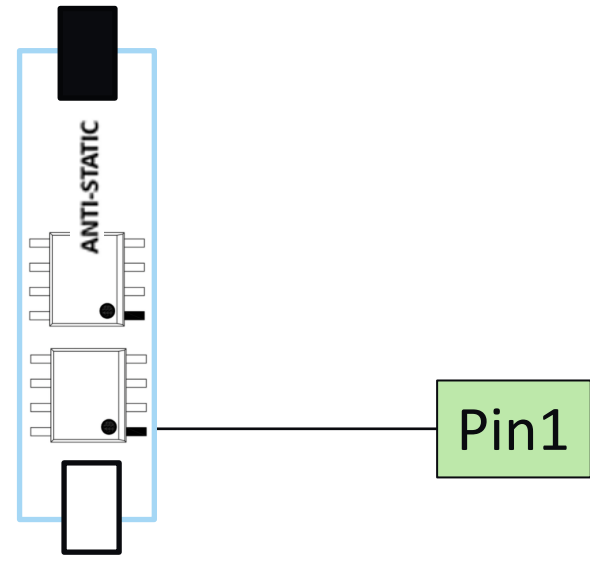


MTAI



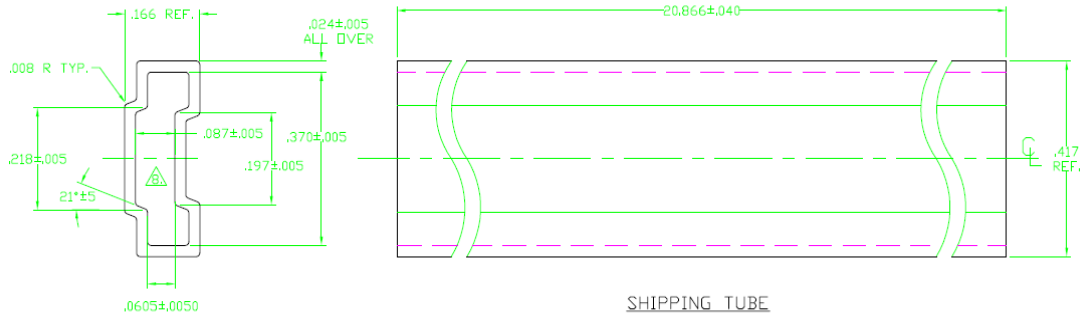
No inner box

Tube Pin1 Orientation

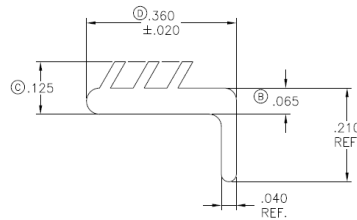
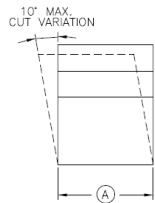
ANAP				MTAI			
							
Media	Tube BQM	Tubes /Bag	Units/Box	Media	Tube BQM	Tubes /Bag	Units/Box
TUBE	95	100	9500	TUBE	95	50	4,750
Media	Pin1 Side	Opposite Side		Media	Pin1 Side	Opposite Side	
PLUG	Green	Green		PLUG	WHITE	BLACK	

Tube

ANAP



SHIPPING TUBE

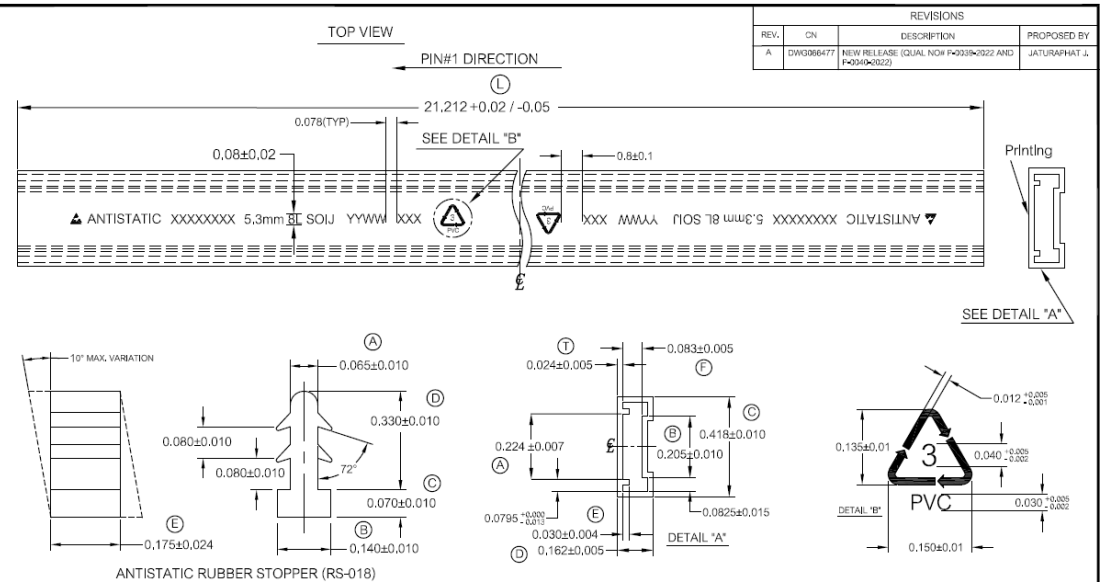


DASH#	DIM. (A)	COLOUR
01	.197±.020	GREEN

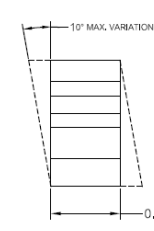
1. ALL DIMENSIONS ARE IN INCHES, U.O.S.
2. ALL PLUG TOLERANCES TO BE ±.015, U.O.S.

Length	Color
20.866 ±0.40 inch	Clear

MTAI



REVISIONS			
REV.	CN	DESCRIPTION	PROPOSED BY
A	DWG086477	NEW RELEASE (QUAL NO# P-0338-022 AND P-0339-022)	JATURAPHAT J.

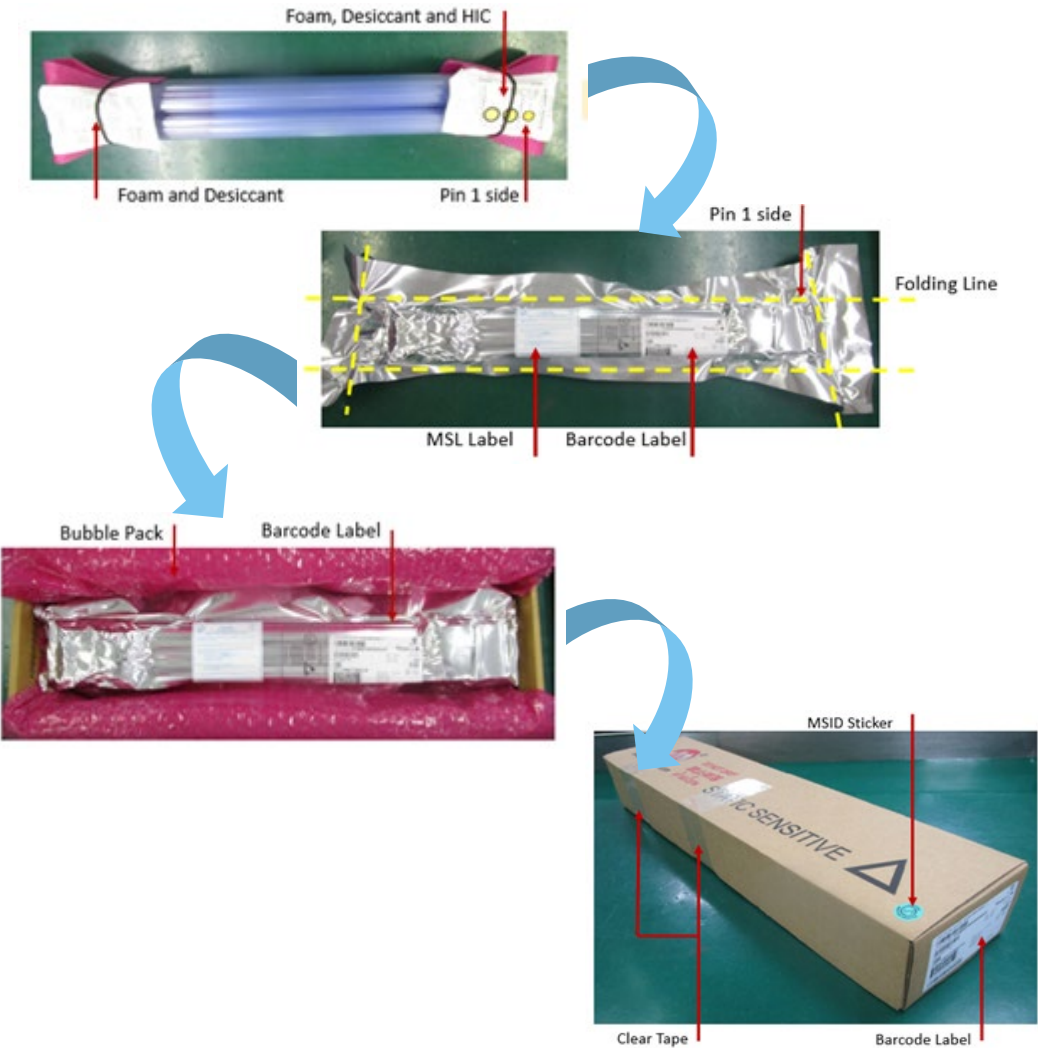


ANTISTATIC RUBBER STOPPER (RS-018)

Length	Color
21.212 +0.02/-0.05 inch	Clear

TUBE Packing Method

ANAP



MTAI



Affected Catalog Part Numbers (CPN)

AT25256B-SHL-B
AT25256B-SHL-T
AT24C512C-SHM-B
AT24C512C-SHD-B
AT24C512C-SHM-T
AT24C512C-SHD-T
AT24CM01-SHD-B
AT24CM01-SHM-B
AT24CM01-SHD-T
AT24CM01-SHM-T
AT25M01-SHM-B
AT25M01-SHM-T