



Product Change Notification - GBNG-20LJOX814

Date:

25 Jun 2020

Product Category:

Memory

Affected CPNs:**Notification subject:**

CCB 4253 Initial Notice: Qualification of MMT as an additional final test site for selected Atmel AT27xxx device family available in 44L PLCC (16.6x16.6x4.4mm) package.

Notification text:**PCN Status:**

Initial notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

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

Description of Change:

Qualification of MMT as an additional final test site for selected Atmel AT27xxx device family available in 44L PLCC (16.6x16.6x4.4mm) package.

Pre Change:

Tested at MPHL final test site.

Post Change:

Tested at MPHL or MMT final test site.

Pre and Post Change Summary:

		Pre Change	Post Change	
Final Test Site		Microchip Technology Operations (Philippines) Corporation (MPHL)	Microchip Technology Operations (Philippines) Corporation (MPHL)	Microchip Technology Thailand (Branch) (MMT)
Base Quantity Multiple (BQM)		No changes	No changes	No changes
Pin 1 Orientation	Tube Tape & Reel	See Pre and Post Change summary		
		Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape Dimension		No dimensional changes. See Pre and Post Change summary		
Cover Tape Dimension		No dimensional changes. See Pre and Post Change summary		
Sealing Method		Pressure seal	Pressure seal	Heat seal
Plastic Reel Dimension		Minor dimensional changes. See Pre and Post Change summary		

Impacts to Data Sheet:

None

Change Impact:



None

Reason for Change:

To improve manufacturability by qualifying MMT as an additional final test site.

Change Implementation Status:

In Progress

Estimated Qualification Completion Date:

June 2020

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.

Time Table Summary:

	June 2020				
Workweek	23	24	25	26	27
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, 2020: Issued initial notification.

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

Attachment(s):

[PCN GBNG-20LJOX814 Pre and Post Change Summary.pdf](#)

[PCN GBNG-20LJOX814 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)

AT27BV1024-90JU
AT27BV1024-90JU-T
AT27C1024-45JU
AT27C1024-70JU
AT27C1024-45JU-T
AT27C1024-70JU-T
AT27C2048-55JU
AT27C2048-90JU
AT27C2048-55JU-T
AT27C2048-90JU-T
AT27C4096-55JU
AT27C4096-90JU
AT27C4096-55JU-T
AT27C4096-90JU-T

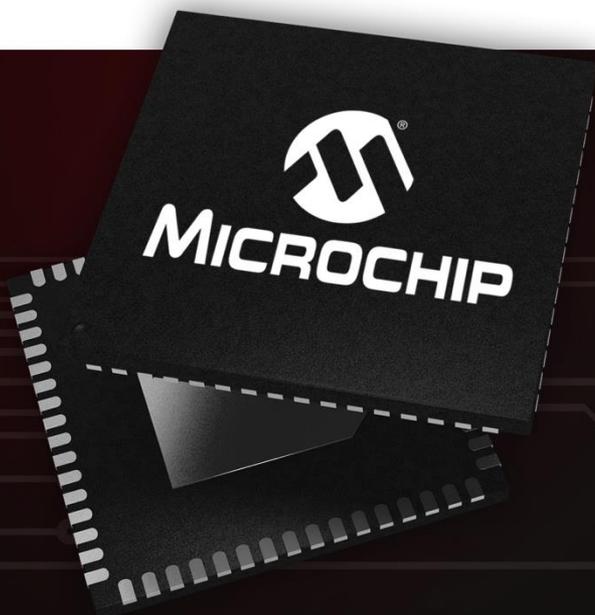
GBNG-20LJOX814 - CCB 4253 Initial Notice: Qualification of MMT as an additional final test site for selected Atmel AT27xxx device family available in 44L PLCC (16.6x16.6x4.4mm) package.

Affected Catalog Part Numbers(CPN)

AT27BV1024-90JU
AT27BV1024-90JU-T
AT27C1024-45JU
AT27C1024-70JU
AT27C1024-45JU-T
AT27C1024-70JU-T
AT27C2048-55JU
AT27C2048-90JU
AT27C2048-55JU-T
AT27C2048-90JU-T
AT27C4096-55JU
AT27C4096-90JU
AT27C4096-55JU-T
AT27C4096-90JU-T



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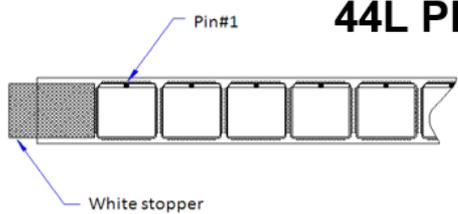


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PCN #:GBNG-20LJOX814
CCB 4253_Pre and Post Change Summary

Pre and Post Change

Final Test Site		MPHL	MMT
BQM (Base Quantity Multiple)	Tube	27	27
	TNR	500	500
Pin Orientation	Tube	<p>Pin 1 facing towards the 'Antistatic' printed on tube</p> 	 <p>44L PLCC</p>
	TNR	Quadrant 1	Quadrant 1

Tube Packing Information

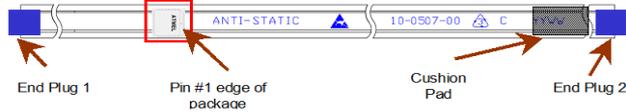
MSL 2 – PLCC TUBE PACKING PROCEDURE (MPHL)

1. Pin 1 Orientation

For PLCC 20/28/44L



For PLCC 32L

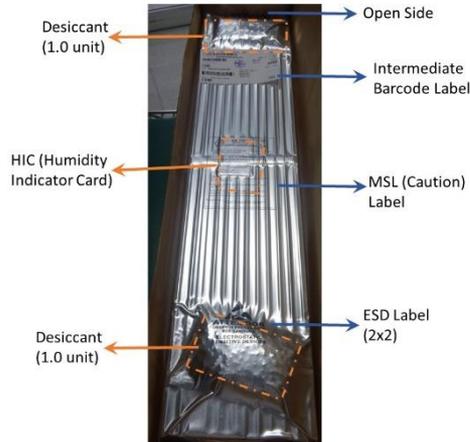


2. Tube Bundling

PLCC 32 – 30 tubes per bag
PLCC 44 – 20 tubes per bag



3. Moisture Barrier Bag Labels



4. Wrap bag with bubble pack



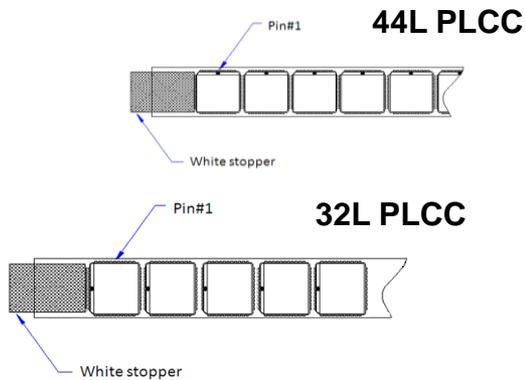
5. Tube Box Packing



Tube Packing Information

MSL 2 – PLCC TUBE PACKING PROCEDURE (MMT)

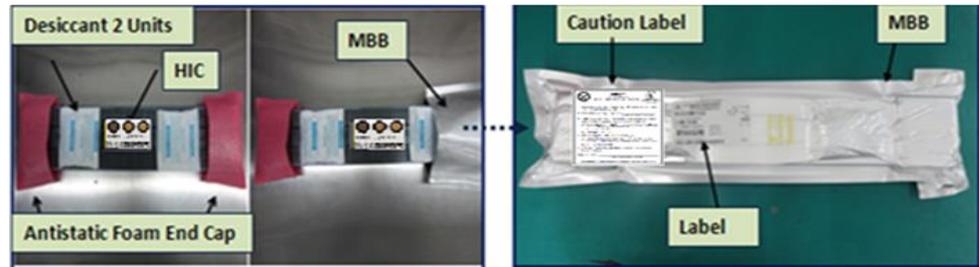
1. Pin 1 Orientation



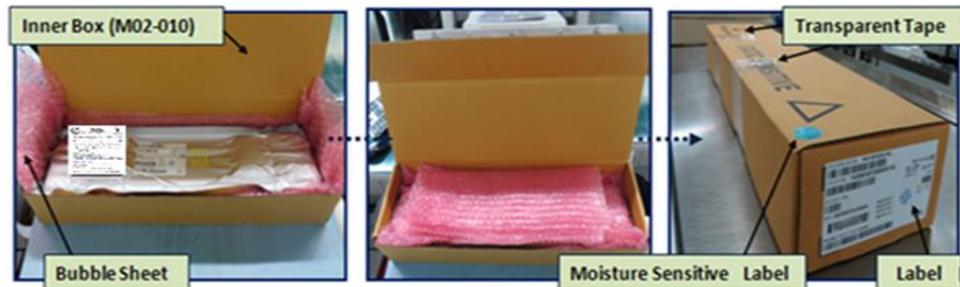
2. Tube Bundling

PLCC 32 – 30 tubes per bag
 PLCC 44 – 20 tubes per bag

3. Moisture Barrier Bag Labels



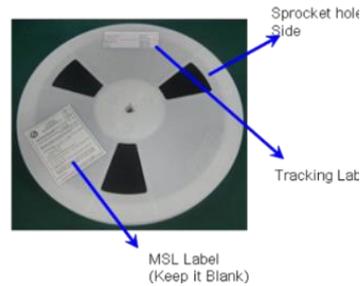
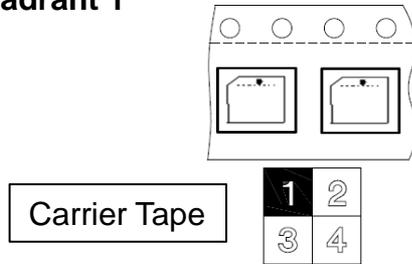
4. Tube Box Packing



Tape & Reel Packing Information

MSL 2 – T/R Dry PACK PROCEDURE (MPHL)

Pin 1 Orientation Quadrant 1



Label Placement at Box



Tape & Reel Packing Information

MSL 2 – T/R Dry PACK PROCEDURE (MMT)

13" Reel for New MBB with Caution printing

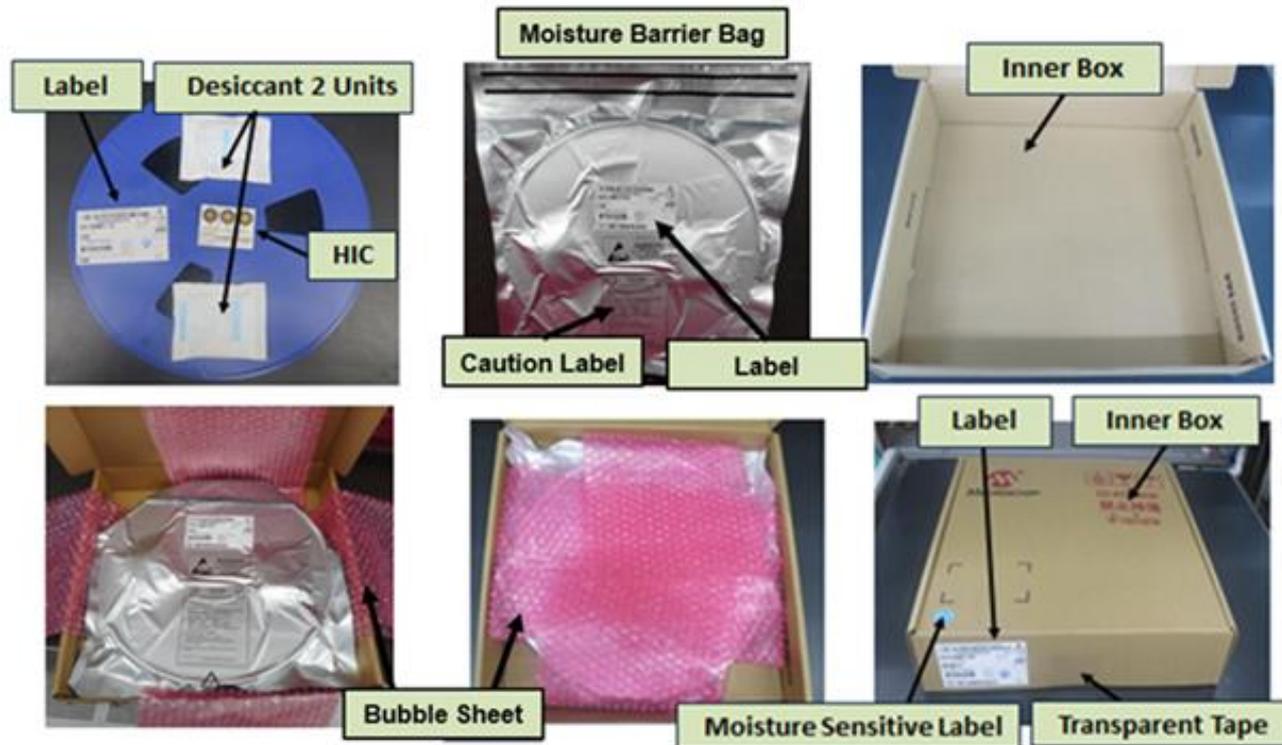
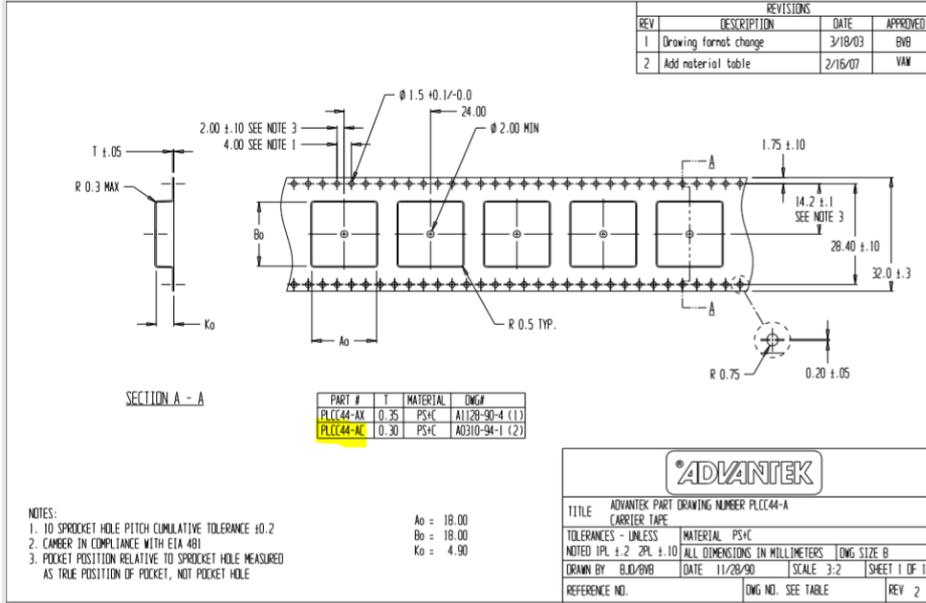


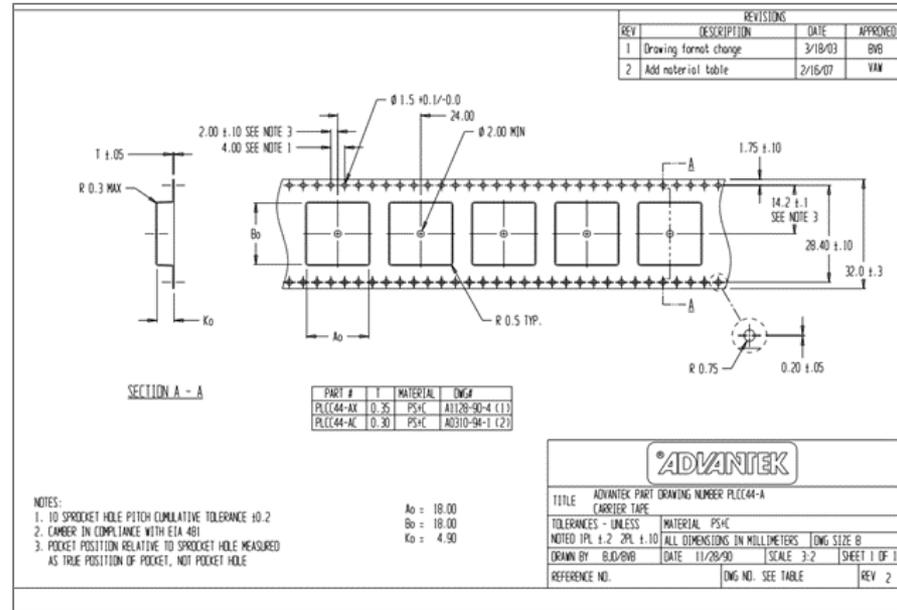
Figure 8.6.1B Dry pack for tape and reel

Carrier Tape

MPHL



MMT

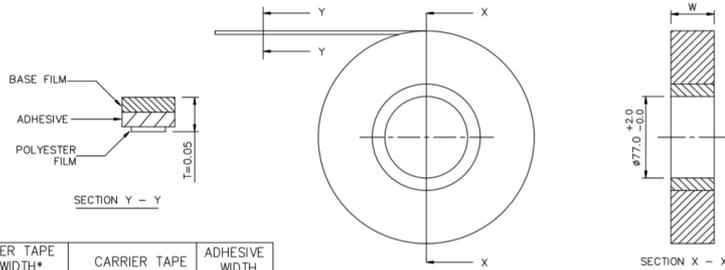


W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A ₀ ±0.1 or Specific	B ₀ ±0.1 or Specific	K ₀ ±0.1 or Specific
32	24	18+/-0.1	18+/-0.1	4.9+/-0.1

W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A ₀ ±0.1 or Specific	B ₀ ±0.1 or Specific	K ₀ ±0.1 or Specific
32	24	18+/-0.1	18+/-0.1	4.9+/-0.1

Cover Tape

MPHL



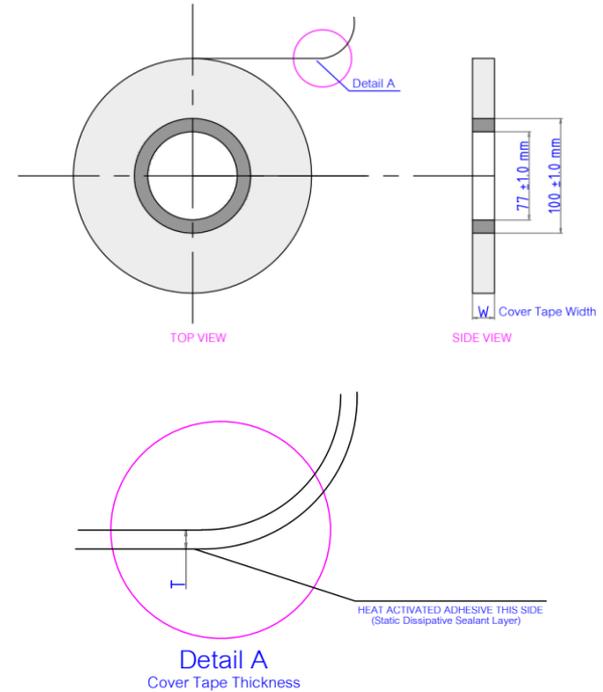
COVER TAPE WIDTH* (W ±0.1)	CARRIER TAPE WIDTH	ADHESIVE WIDTH (W ±0.15)
5.3	8	0.7x2
7.3	12	1.0x2
9.3	12	1.0x2
13.3	16	1.0x2
21.3	24	1.15x2
25.5, 26.3	32	1.15x2
37.5	44	1.65x2
49.5	56	1.65x2
65.5	72	1.65x2

- NOTES
- 1 THICKNESS : 0.045–0.055mm.
 - 2 LIGHT TRANSMITTANCE : >80%
 - 3 TENSILE STRENGTH : 9.7kg/mm sq.
 - 4 ELONGATION : >120%
 - 5 SURFACE RESISTIVITY
UNDERSIDE : 10¹⁰OHMS/SQ MAX.
TOPSIDE : 10¹⁰OHMS/SQ
 - *6 OTHER COVER TAPE WIDTH REFER TO WI4.08–04.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

Carrier Width	Width "W" (mm)	Thickness (mm)	Sealing Mythology
32mm	25.5 +/-0.1	0.050 ±0.010	Pressure Seal

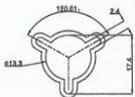
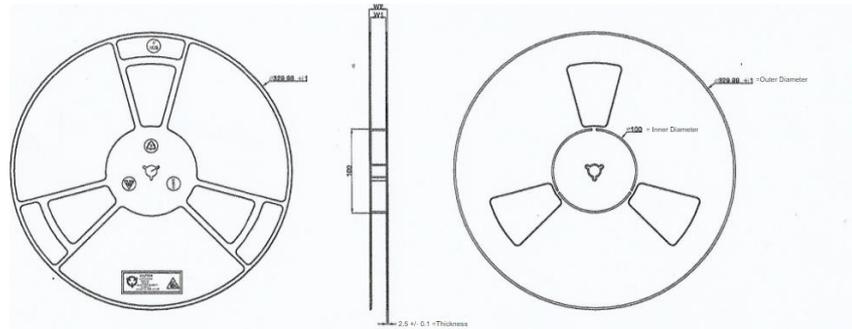
MMT



Carrier Width	Width "W" (mm)	Thickness (mm)	Sealing Mythology
32mm	25.5 +/-0.1	0.050 ±0.010	Heat Sealing

Plastic Reel

MPHL



Tape Width	W1	W2
12mm	13.5 ± 0.5	17.5 ± 1.0
16mm	17.5 ± 0.5	21.5 ± 1.0
24mm	25.5 ± 0.5	29.5 ± 1.0
32mm	33.0 ± 0.5	36.5 ± 1.0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE MILLIMETERS TOLERANCE

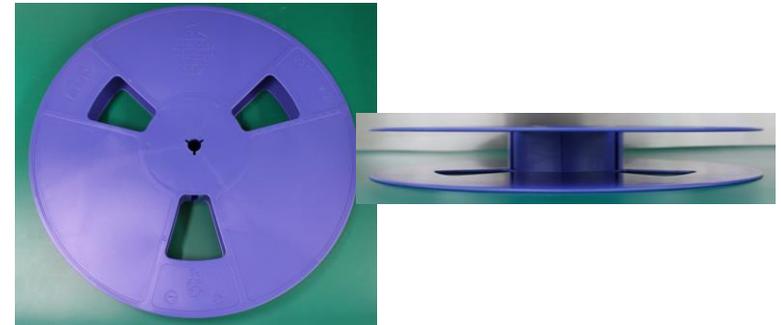
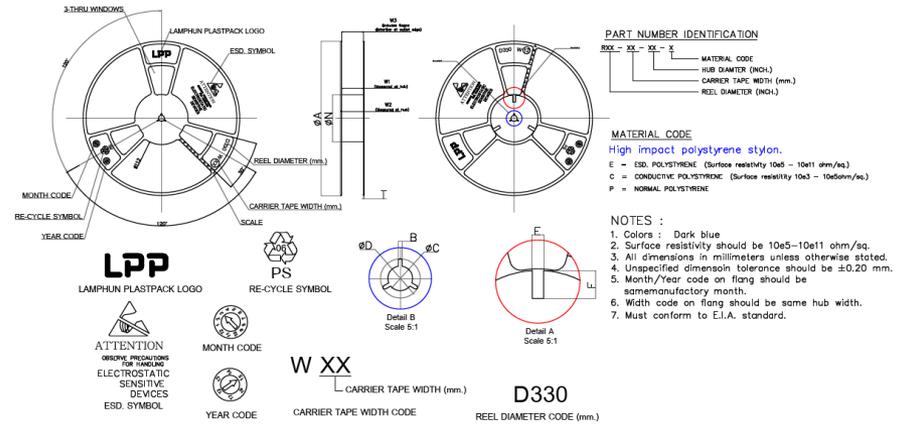
THIRD ANGLE PROJECTION

1:1 2:1 3:1 4:1 5:1 10:1 20:1 30:1 40:1 50:1 100:1 200:1 300:1 400:1 500:1 1000:1 2000:1 3000:1 4000:1 5000:1

TITLE 330MM PLASTIC REEL

Width	Hub	Color
32mm	4inch (100mm)	White

MMT



Width	Hub	Color
32mm	4inch (100mm)	Dark Blue

End of Presentation



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QUALIFICATION PLAN SUMMARY

PCN #: GBNG-20LJOX814

Date

May 13, 2020

Qualification of MMT as an additional final test site for selected Atmel AT27xxx device family available in 44L PLCC (16.6x16.6x4.4mm) package.

Purpose: Qualification of MMT as an additional final test site for selected Atmel AT27xxx device family available in 44L PLCC (16.6x16.6x4.4mm) package.

CCB No.: 4253

Test / Evaluation	Test Conditions / Parameters
Yield / speed bin distribution/ Bin Comparison	<ul style="list-style-type: none">• Compare overall yield, speed distribution, test bin pass/fail results• Accept if all match or justify the differences
Correlation lot report	<ul style="list-style-type: none">• Yield at each step and reject analysis between systems. Min 3K units are tested for each program/density conversion we perform.• Accept on yield match within 1%

