

CCB 7231.018
Pre and Post Change Summary
PCN #: CENO-22NWQI834

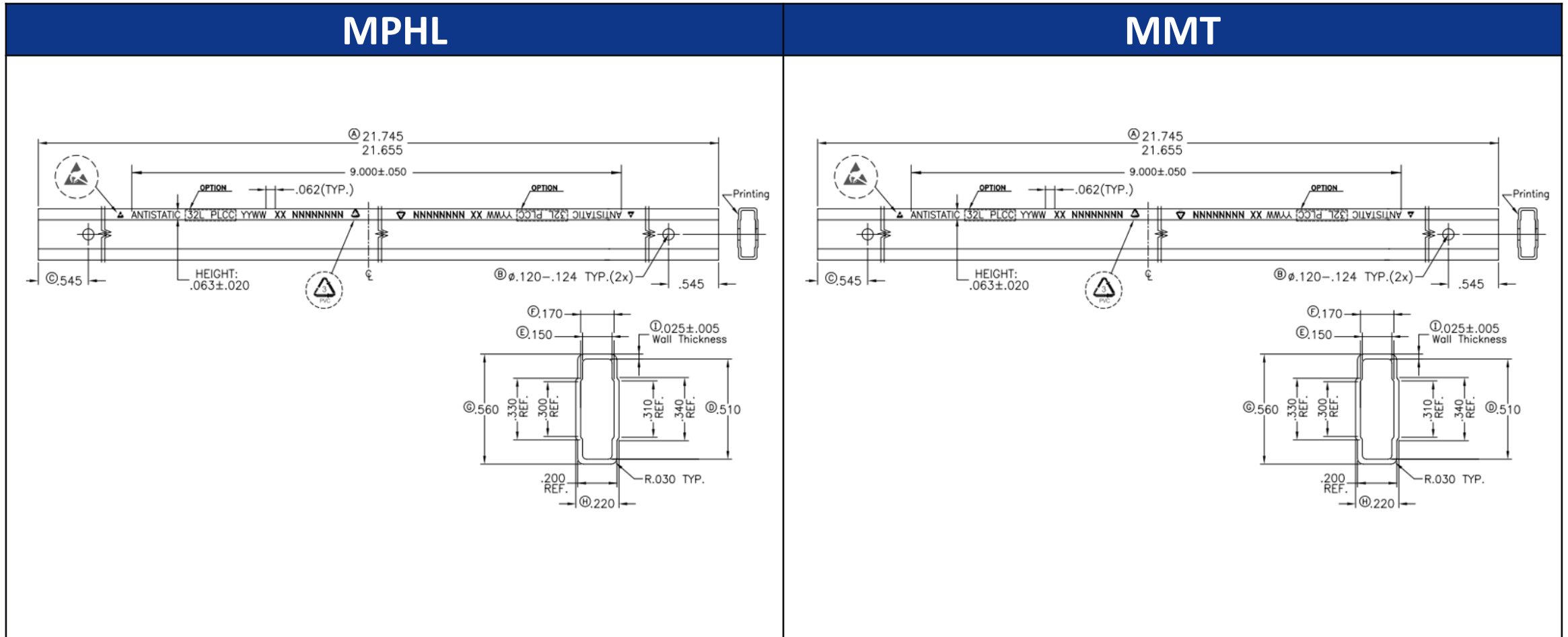


A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



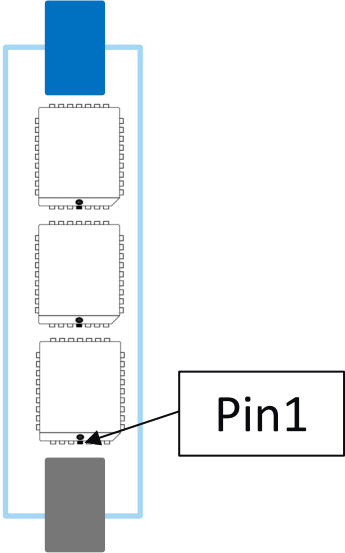
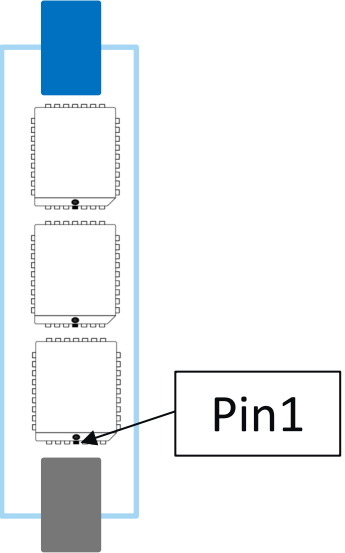
SMART | CONNECTED | SECURE

TUBE

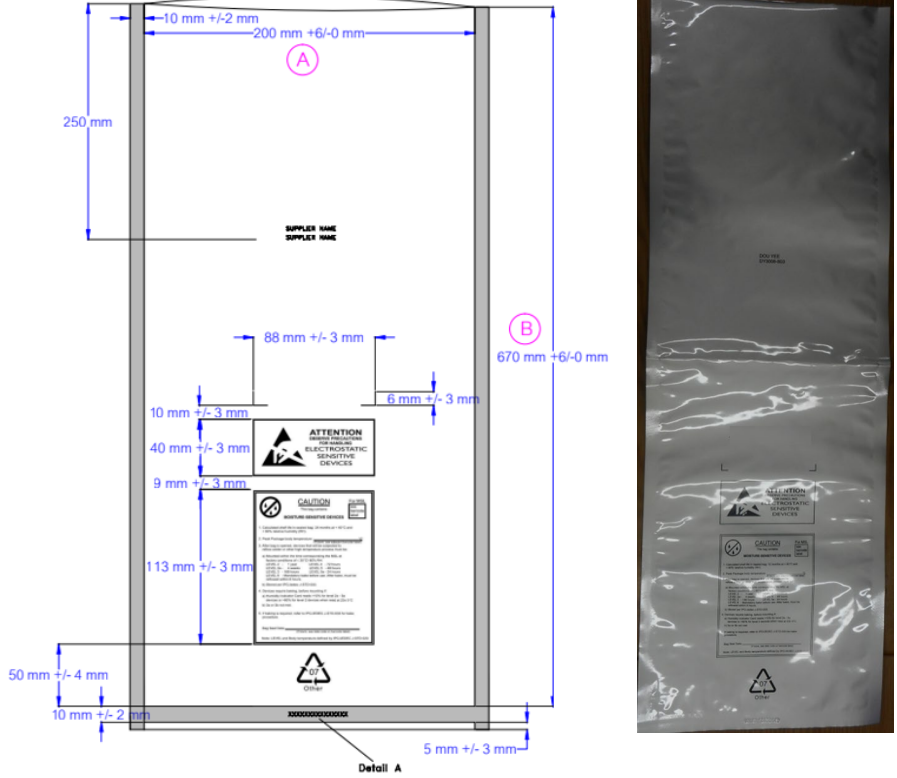


Final Test Site	Tube Length (inch)	Unit per Tube	Tube per Bag	Tube Color
MPHL	21.70 +/- 0.045	32	30	Transparent Clear
MMT	21.70 +/- 0.045	32	30	Transparent Clear

TUBE - Plug/Pin Color

MPHL			MMT		
					
Media	Pin1 Side Color	Opposite Side Color	Media	Pin1 Side Color	Opposite Side Color
Plug	Gray	Blue	Plug	Gray	Blue

TUBE – PACKING METHOD (BAG)

MPHL	MMT
 <p>The diagram for the MPHL bag shows a rectangular shape with rounded corners. Dimensions include a width 'W', a length 'L', and a height 'B'. A specific width of 7.5cm is indicated for the central label area. The photo shows a physical silver moisture barrier bag with a label and an 'ATTENTION' warning.</p>	 <p>The diagram for the MMT bag provides detailed dimensions: a total width of 200 mm +/- 0 mm, a height of 250 mm, and a length of 670 mm +/- 0 mm. It specifies various offsets for the label and bottom edge, such as 10 mm +/- 2 mm from the top and 5 mm +/- 3 mm from the bottom. The photo shows a physical silver moisture barrier bag with a label and an 'ATTENTION' warning.</p>

Final Test Site	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Moisture Barrier Bag	685 +/-5	228 +/-5	0.1524
MMT	Moisture Barrier Bag	670 +6/-0	200 +6/-0	0.1016

TUBE – PACKING METHOD (Desiccant)

MPHL

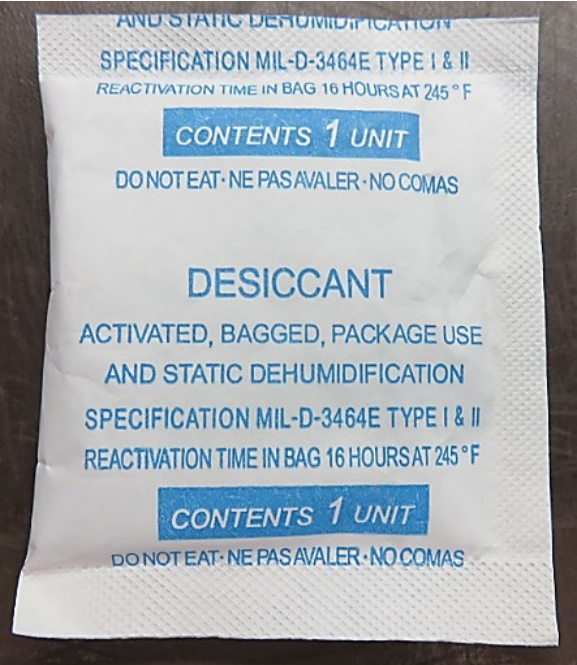


OR



Desiccant each unit is 33g

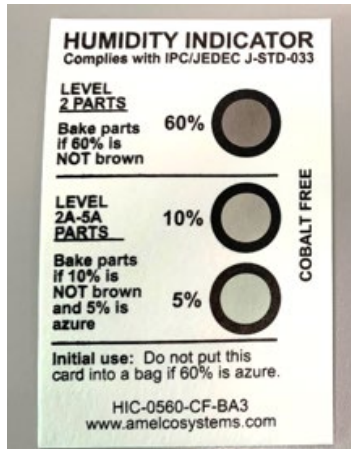
MMT



Desiccant each unit is 33g

TUBE – PACKING METHOD (Humidity Indicator Card – HIC)

MPHL



OR



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

MMT



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

TUBE – PACKING METHOD (Dry Pack – MSL 2)

MPHL

Inner box Dimension W x L x H (cm)
20x63x8

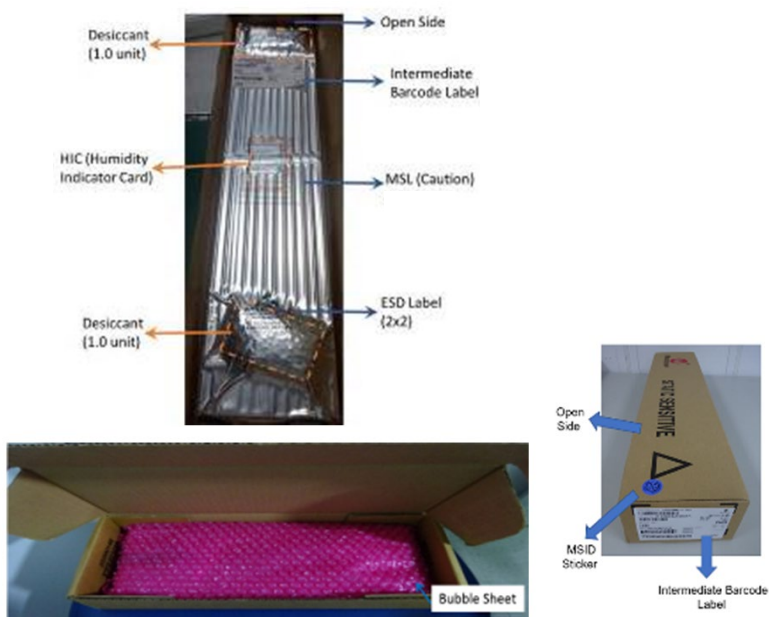
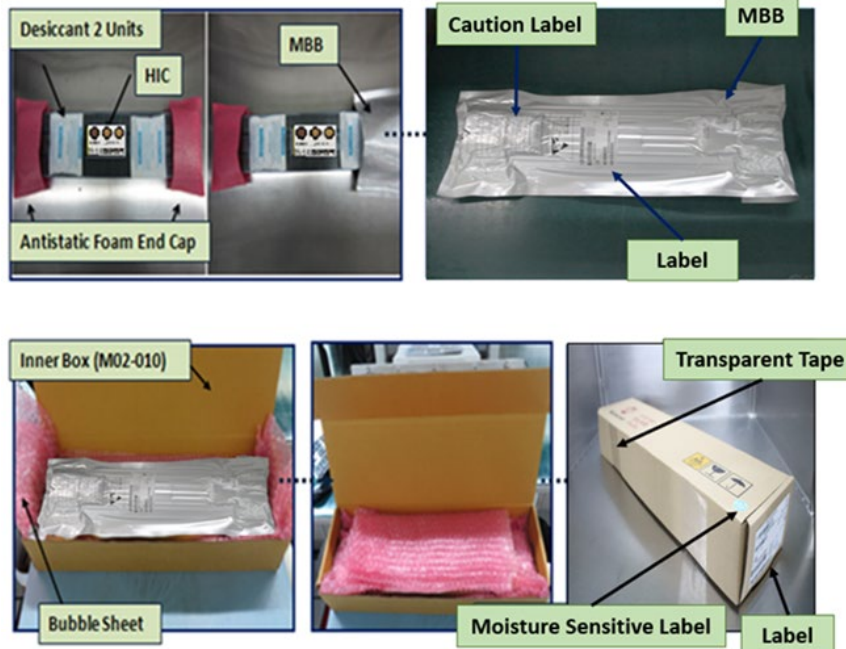
*for Long tube

Inner box Dimension W x L x H (cm)
12.9x56.5x8

MMT

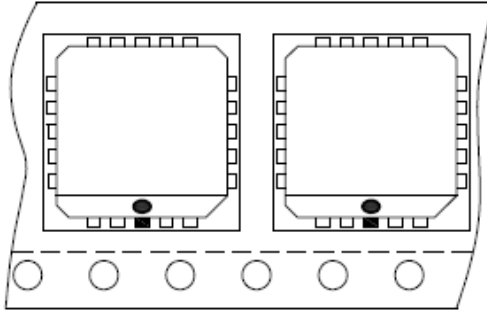
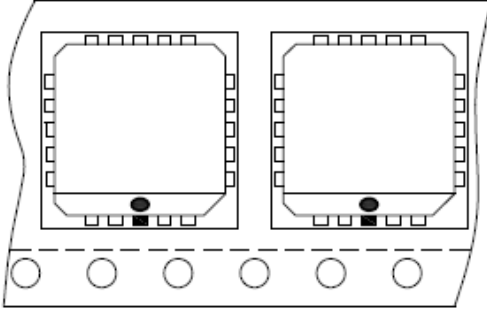
Final Test Site	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition		
				Bake Time at 125C +10/-0 C (Hours)	Exposure Time from Bake (Hours)	Customer Floor Life (Hours)
MPHL	MSL-2	2 units	1 pc	No Bake	No Bake	No Bake
MMT	MSL-2	2 units	1 pc	No Bake	No Bake	No Bake

TUBE – PACKING METHOD (Dry Pack – MSL 3)

MPHL	MMT
 <div style="margin-top: 20px; border: 1px solid black; padding: 5px; background-color: #003366; color: white; width: fit-content;"> Inner box Dimension W x L x H (cm) 20x63x8 </div> <p style="text-align: center; margin-top: 20px;">*for Long tube</p>	 <div style="margin-top: 20px; border: 1px solid black; padding: 5px; background-color: #003366; color: white; width: fit-content;"> Inner box Dimension W x L x H (cm) 12.9x56.5x8 </div>

Final Test Site	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition		
				Bake Time at 125C +10/-0 C (Hours)	Exposure Time from Bake (Hours)	Customer Floor Life (Hours)
MPHL	MSL-3	2 units	1 pc	4 hours	6 hours	168 hours
MMT	MSL-3	2 units	1 pc	4 hours	6 hours	168 hours

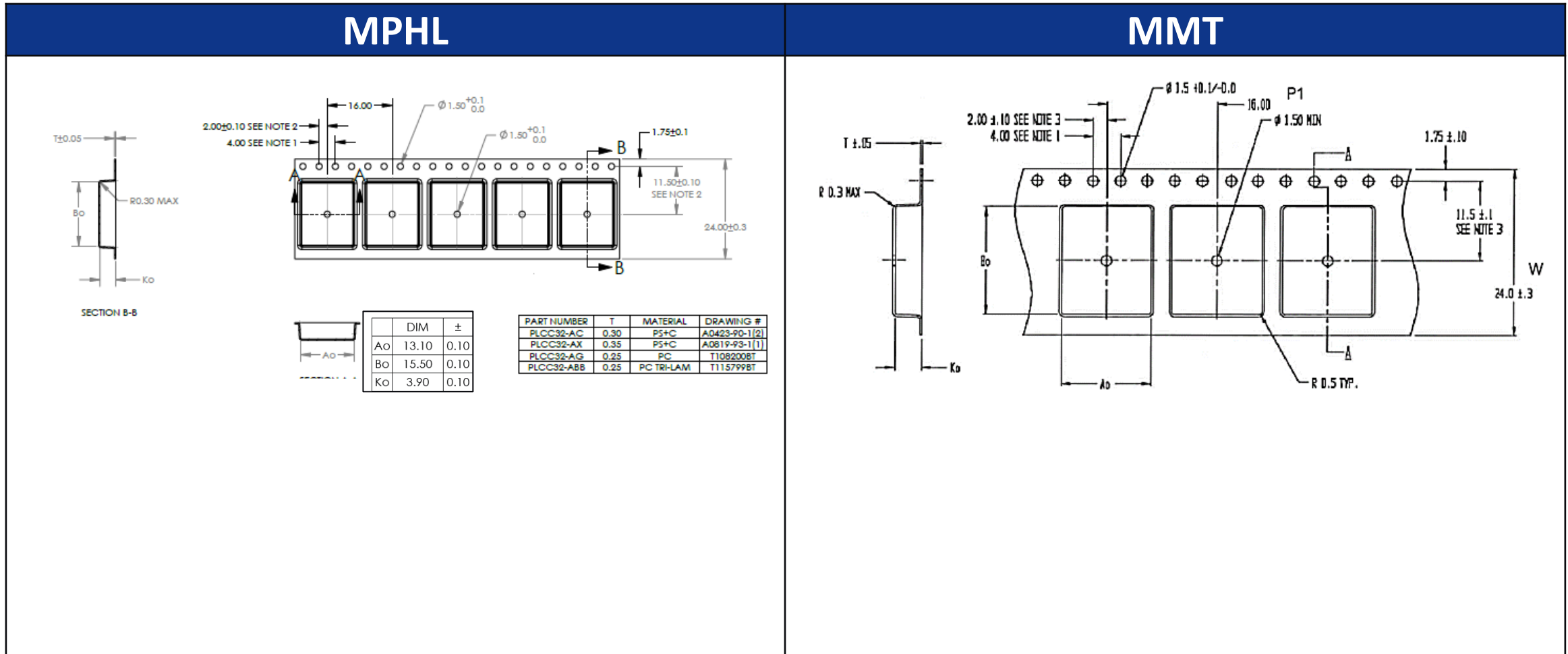
Tape and Reel - Pin1 Orientation

MPHL	MMT
 <p>Diagram illustrating the MPHL (Micro Pin Header Lead) tape and reel pin 1 orientation. The diagram shows two adjacent components on a carrier tape. Each component has a square footprint with a notch at the bottom center. A solid black dot, representing Pin 1, is located at the bottom center of each component. Below the components, a dashed line indicates the carrier tape edge, with six circular punch holes.</p> <p>Quadrant 1-2</p>	 <p>Diagram illustrating the MMT (Micro Metal Mount) tape and reel pin 1 orientation. The diagram shows two adjacent components on a carrier tape. Each component has a square footprint with a notch at the bottom center. A solid black dot, representing Pin 1, is located at the bottom center of each component. Below the components, a dashed line indicates the carrier tape edge, with six circular punch holes.</p> <p>Quadrant 1-2</p>

Tape and Reel - Base Quantity Multiple (BQM)

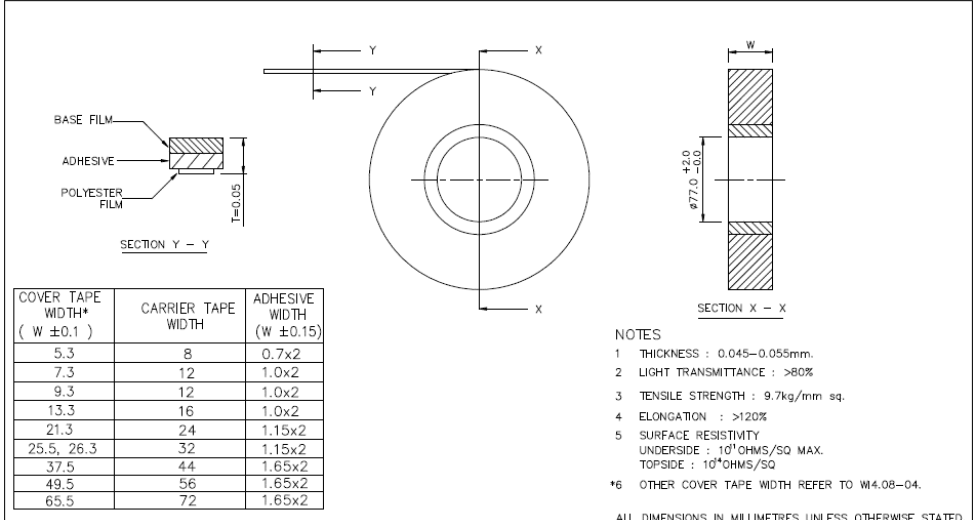
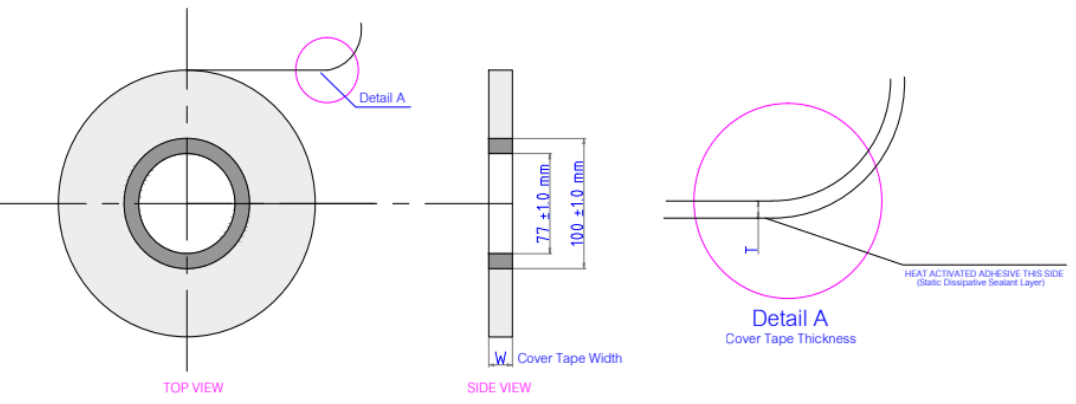
MPHL	MMT
Units per reel: 750 1 reel per bag	Units per reel: 750 1 reel per bag

Tape and Reel - Carrier Tape



Final Test Site	W (mm)	P (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
MPHL	24.00 ± 0.30	16.00 ± 0.10	13.10 ± 0.10	15.50 ± 0.10	3.90 ± 0.10	0.30 ± 0.50
MMT	24.00 ± 0.30	16.00 ± 0.10	13.10 ± 0.10	15.50 ± 0.10	3.90 ± 0.10	0.30 ± 0.50

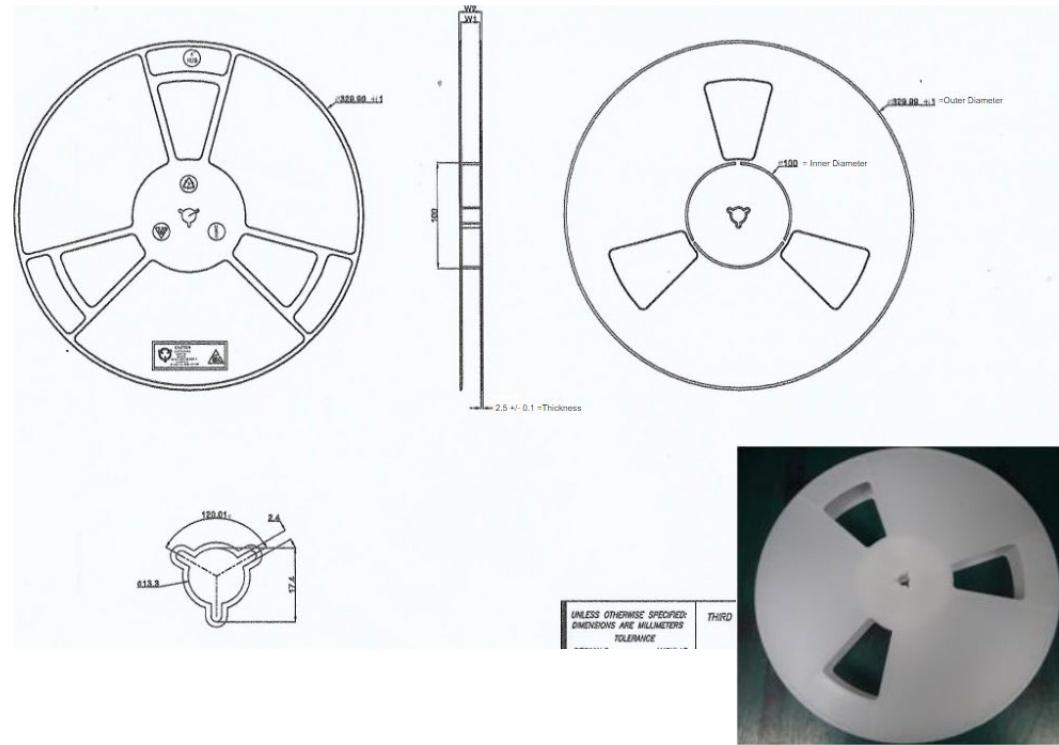
Tape and Reel - Cover Tape

MPHL	MMT																														
 <p>SECTION Y - Y</p> <p>BASE FILM ADHESIVE POLYESTER FILM T=0.05</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>COVER TAPE WIDTH* (W ±0.1)</th> <th>CARRIER TAPE WIDTH</th> <th>ADHESIVE WIDTH (W ±0.15)</th> </tr> </thead> <tbody> <tr><td>5.3</td><td>8</td><td>0.7x2</td></tr> <tr><td>7.3</td><td>12</td><td>1.0x2</td></tr> <tr><td>9.3</td><td>12</td><td>1.0x2</td></tr> <tr><td>13.3</td><td>16</td><td>1.0x2</td></tr> <tr><td>21.3</td><td>24</td><td>1.15x2</td></tr> <tr><td>25.5, 26.3</td><td>32</td><td>1.15x2</td></tr> <tr><td>37.5</td><td>44</td><td>1.65x2</td></tr> <tr><td>49.5</td><td>56</td><td>1.65x2</td></tr> <tr><td>65.5</td><td>72</td><td>1.65x2</td></tr> </tbody> </table> <p>SECTION X - X</p> <p>W Ø77.0 +2.0 -0.0</p> <p>NOTES</p> <ol style="list-style-type: none"> 1 THICKNESS : 0.045-0.055mm. 2 LIGHT TRANSMITTANCE : >80% 3 TENSILE STRENGTH : 9.7kg/mm sq. 4 ELONGATION : >120% 5 SURFACE RESISTIVITY UNDERSIDE : 10³ OHMS/SQ MAX. TOPSIDE : 10⁴ OHMS/SQ *6 OTHER COVER TAPE WIDTH REFER TO W14.08-04. <p>ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p>	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	 <p>TOP VIEW</p> <p>Detail A</p> <p>SIDE VIEW</p> <p>W Cover Tape Width 77 ±1.0 mm 100 ±1.0 mm</p> <p>Detail A</p> <p>Cover Tape Thickness HEAT ACTIVATED ADHESIVE THIS SIDE (Static Dissipative Sealant Layer)</p>
COVER TAPE WIDTH* (W ±0.1)	CARRIER TAPE WIDTH	ADHESIVE WIDTH (W ±0.15)																													
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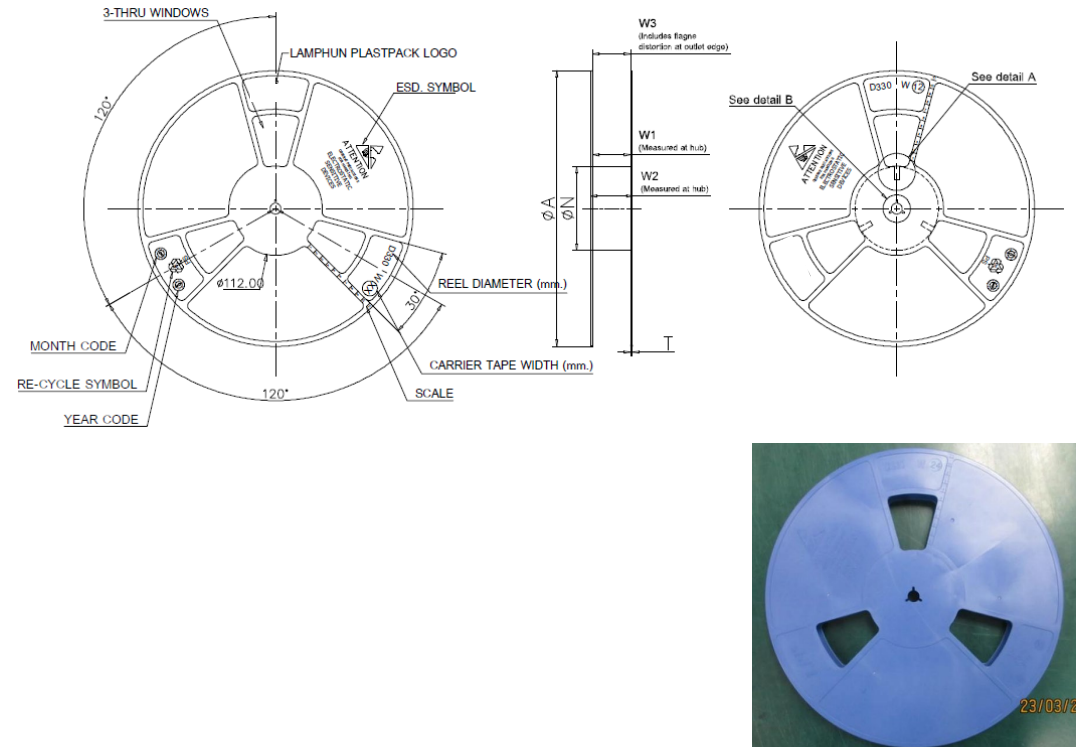
Final Test Site	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
MPHL	21.3 +/-0.1	0.050 ±0.005	Clear	Pressure Adhesive Sealing
MMT	21.0 ±0.1	0.050 ±0.010	Clear	Heat sealing

Tape and Reel - Plastic Reel

MPHL

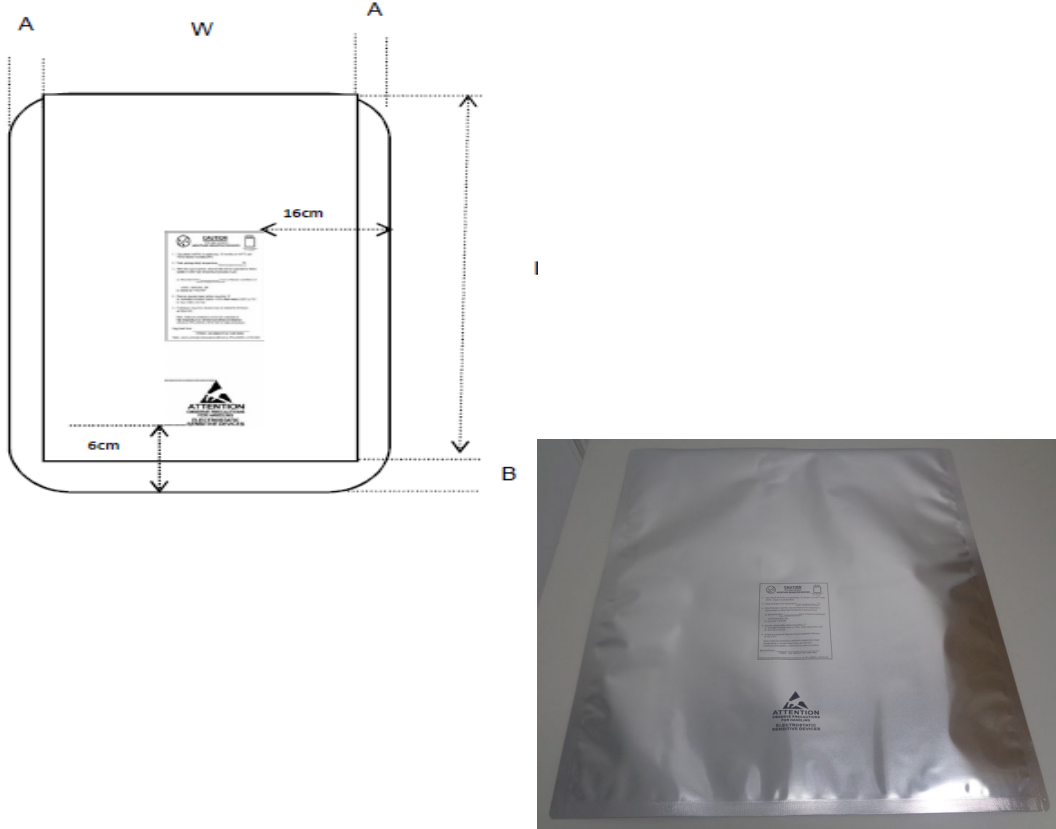
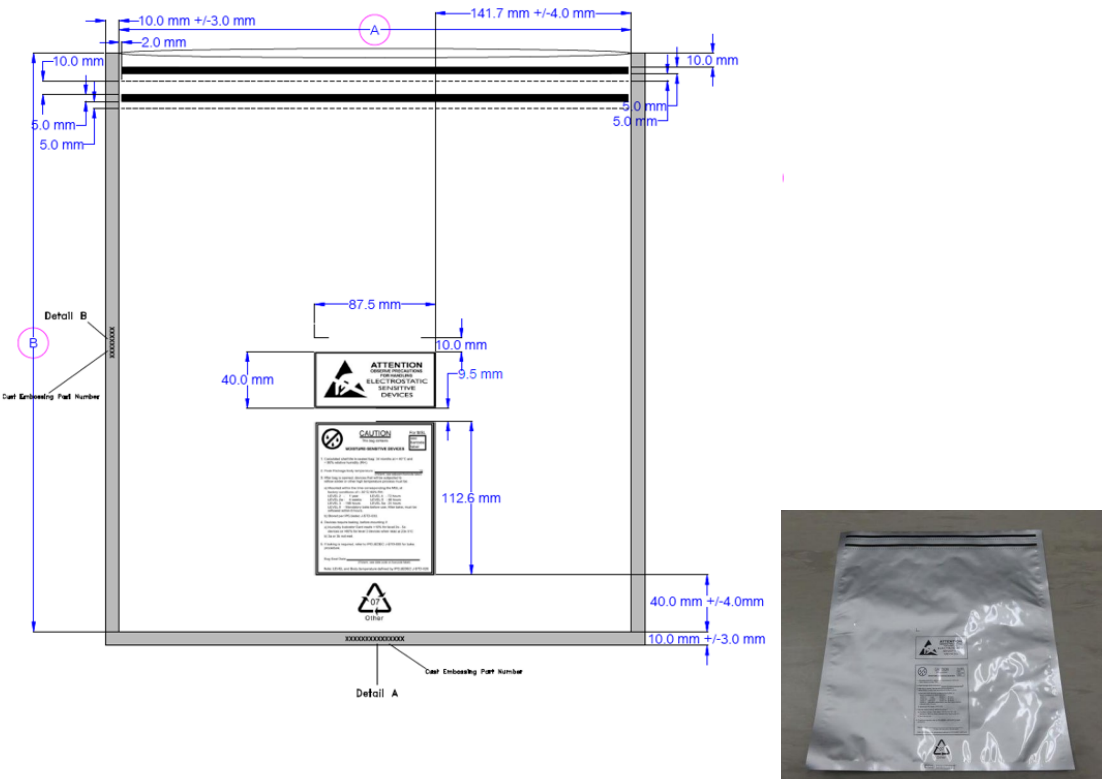


MMT



Final Test Site	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MPHL	330 ±1.0	100 ±1.0	30.50	White
MMT	330 ±2.0	100 ±2.0	30.40	Dark Blue

Tape and Reel - PACKING METHDOD (BAG)

MPHL	MMT
 <p>The diagram for the MPHL bag shows a rectangular shape with rounded corners. The width is labeled 'W' and the height is labeled 'A'. A central label is positioned 16cm from the right edge and 6cm from the bottom edge. A warning symbol is located at the bottom center. The photo shows a physical white bag with a similar label and warning symbol.</p>	 <p>The diagram for the MMT bag provides detailed dimensions in millimeters. The top edge has a width of 141.7 mm +/- 4.0 mm. The top-left corner has a 10.0 mm +/- 3.0 mm radius. The top edge is 2.0 mm thick. The top-right corner has a 10.0 mm radius. The bottom edge has a width of 40.0 mm +/- 4.0 mm. The bottom-right corner has a 10.0 mm +/- 3.0 mm radius. The central label is 87.5 mm wide and 112.6 mm high. The label is 40.0 mm from the left edge and 9.5 mm from the bottom edge. The label contains a warning symbol and the text 'ATTENTION ELECTROSTATIC SENSITIVE DEVICES'. The photo shows a physical white bag with a similar label and warning symbol.</p>

Final Test Site	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Moisture Barrier Bag	457 +/-5	406 +/-5	0.1524
MMT	Moisture Barrier Bag	420 +6/-0	370 +6/-0	0.1016

Tape and Reel - PACKING METHDOD (Desiccant)

MPHL

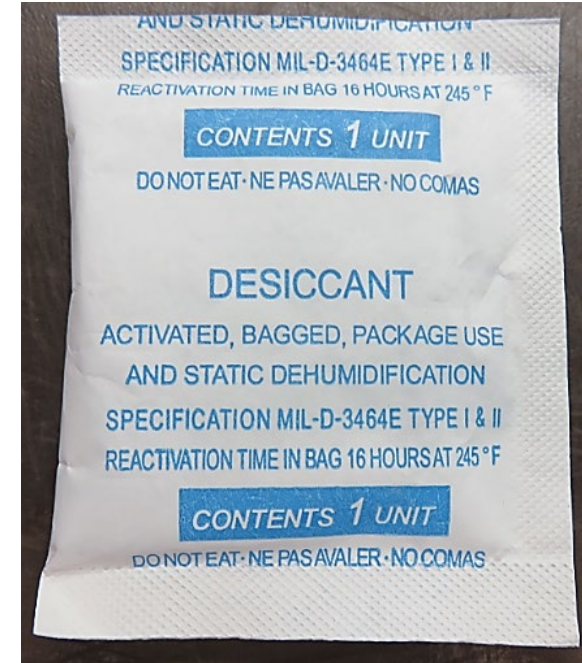


OR



Desiccant each unit is 33g

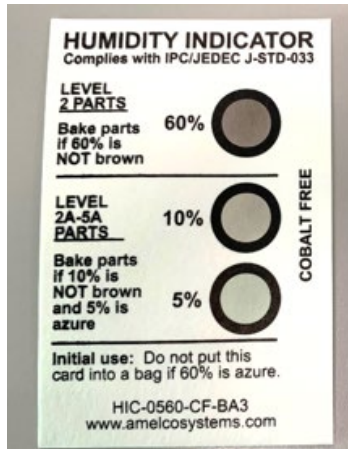
MMT



Desiccant each unit is 33g

Tape and Reel - PACKING METHDOD (Humidity Indicator Card - HIC)

MPHL



OR



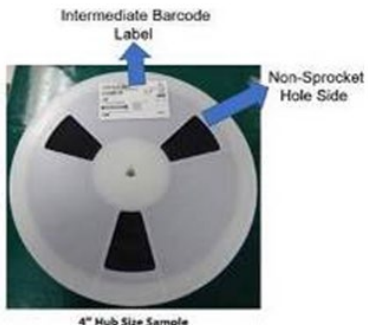



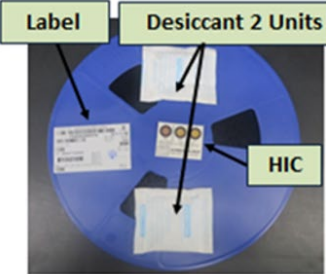

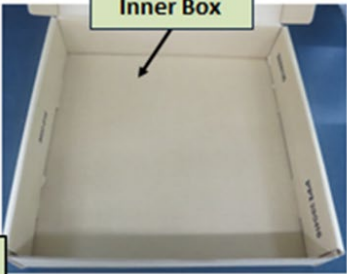

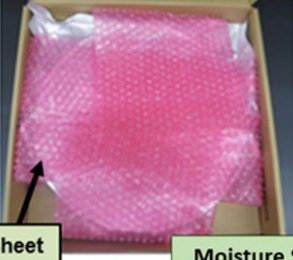
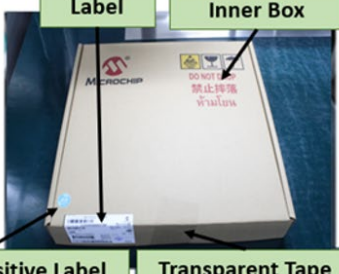
- 3 Dots (5%, 10%, 60%)
- Cobalt Free

MMT



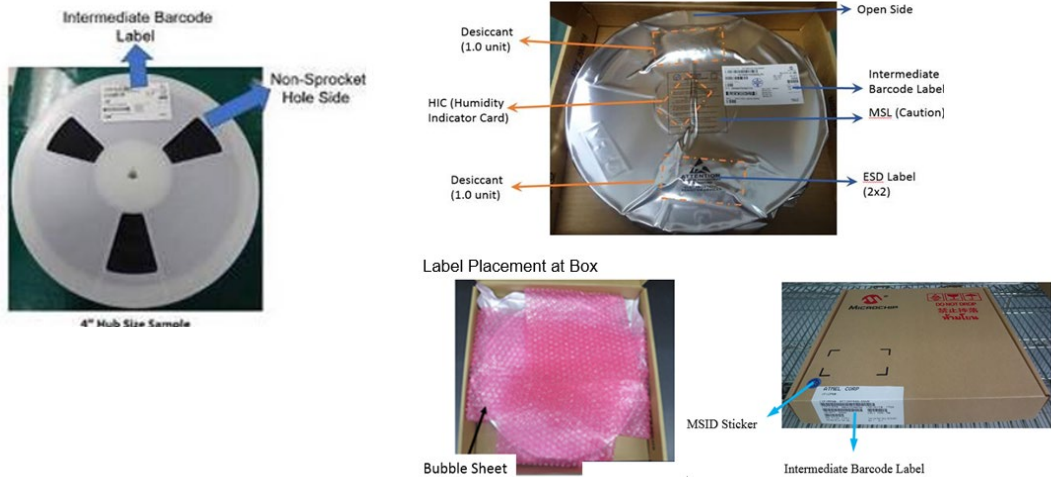
- 3 Dots (5%, 10%, 60%)
- Cobalt Free

Tape and Reel - PACKING METHDOD (Dry Pack – MSL 2)

MPHL				MMT						
   				     						
<table border="1"> <tr><td>Inner box Dimension W x L x H (cm)</td></tr> <tr><td>37x35.1x5.3</td></tr> </table>				Inner box Dimension W x L x H (cm)	37x35.1x5.3	<table border="1"> <tr><td>Inner box Dimension W x L x H (cm)</td></tr> <tr><td>37x35.1x5.3</td></tr> </table>			Inner box Dimension W x L x H (cm)	37x35.1x5.3
Inner box Dimension W x L x H (cm)										
37x35.1x5.3										
Inner box Dimension W x L x H (cm)										
37x35.1x5.3										
Final Test Site	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition						
				Bake Time at 125C +10/-0 C (Hours)	Exposure Time from Bake (Hours)	Customer Floor Life (Hours)				
MPHL	MSL-2	2 units	1 pc	No Bake	No Bake	No Bake				
MMT	MSL-2	2 units	1 pc	No Bake	No Bake	No Bake				

Tape and Reel - PACKING METHDOD (Dry Pack – MSL 3)

MPHL



Intermediate Barcode Label

Non-Sprocket Hole Side

4" Hub Size Sample

Desiccant (1.0 unit)

HIC (Humidity Indicator Card)

Desiccant (1.0 unit)

Open Side

Intermediate Barcode Label

MSL (Caution)

ESD Label (2x2)

Label Placement at Box

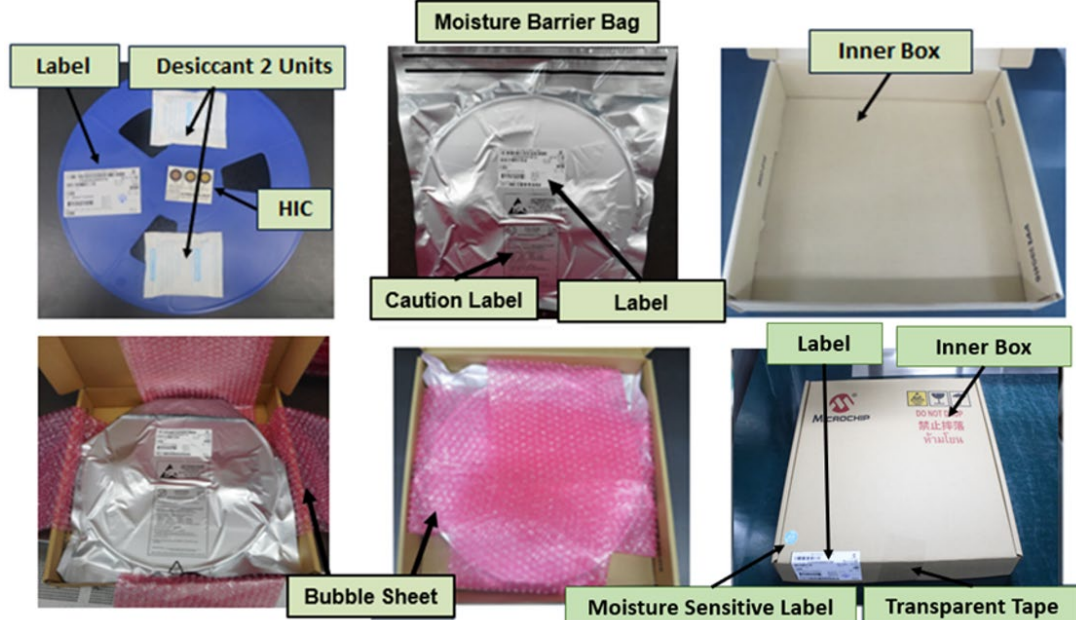
Bubble Sheet

MSID Sticker

Intermediate Barcode Label

Inner box Dimension
W x L x H (cm)
37x35.1x5.3

MMT



Moisture Barrier Bag

Inner Box

Label

Desiccant 2 Units

HIC

Caution Label

Label

Bubble Sheet

Moisture Sensitive Label

Transparent Tape

Inner box Dimension
W x L x H (cm)
37x35.1x5.3

Final Test Site	MSL Level	Desiccant	Humidity Indicator Card	Baking Condition		
				Bake Time at 125C +10/-0 C (Hours)	Exposure Time from Bake (Hours)	Customer Floor Life (Hours)
MPHL	MSL-3	2 units	1 pc	4 hours	6 hours	168 hours
MMT	MSL-3	2 units	1 pc	Reference MPHL	Reference MPHL	Reference MPHL