



Product Change Notification / CENO-09GNHQ147

Date:

11-May-2023

Product Category:

Clock and Timing - Clock and Data Distribution

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6263 Final Notice: Qualification of MMT as an additional final test site for selected SY58031UMG, SY58032UMG, SY58033UMG, SY58032UMG-TR and SY58033UMG-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

Affected CPNs:

[CENO-09GNHQ147_Affected_CPN_05112023.pdf](#)

[CENO-09GNHQ147_Affected_CPN_05112023.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 MMT as an additional final test site for selected SY58031UMG, SY58032UMG, SY58033UMG, SY58032UMG-TR and SY58033UMG-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

Pre and Post Change Summary:

		Pre Change	Post Change	
Final Test Site		Unisem Advance Tech (UAT)	Unisem Advance Tech (UAT)	Microchip Technology Thailand (Branch) (MMT)
Tube	Base Quantity Multiple (BQM)	60 units/tube	60 units/tube	60 units/tube
	Pin 1 Orientation	See attached Pre and Post Comparison		
Tape and Reel	Base Quantity Multiple (BQM)	1000 units/reel	1000 units/reel	1000 units/reel
	Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape		See attached Pre and Post Comparison		
Cover Tape		With minor dimensional changes. See attached Pre and Post Comparison		
Plastic Reel		Light Blue	Light Blue	Dark Blue
		With minor dimensional changes. See attached Pre and Post Comparison		
Desiccant and HIC		See attached Pre and Post Comparison		
Packing Material/Method		See attached Pre and Post Comparison		

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve productivity by qualifying MMT as an additional final test site

Change Implementation Status:In Progress

Estimated First Ship Date:June 16, 2023 (date code: 2324)

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

Time Table Summary:

	May 2023					June 2023			
Workweek	1 8	1 9	2 0	2 1	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:May 11, 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_CENO-09GNHQ147 Pre and Post Change Summary.pdf](#)
[PCN_CENO-09GNHQ147_Qualification_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.

CCB 6263
Pre and Post Change Summary
PCN #: CENO-09GNHQ147



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

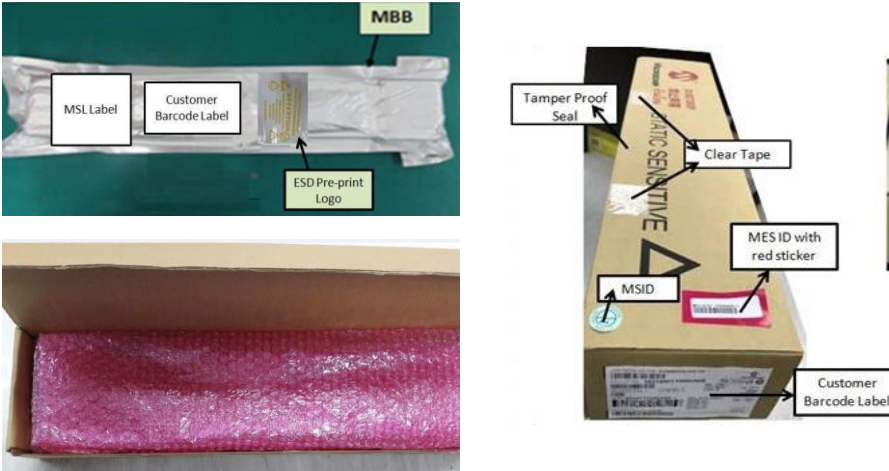
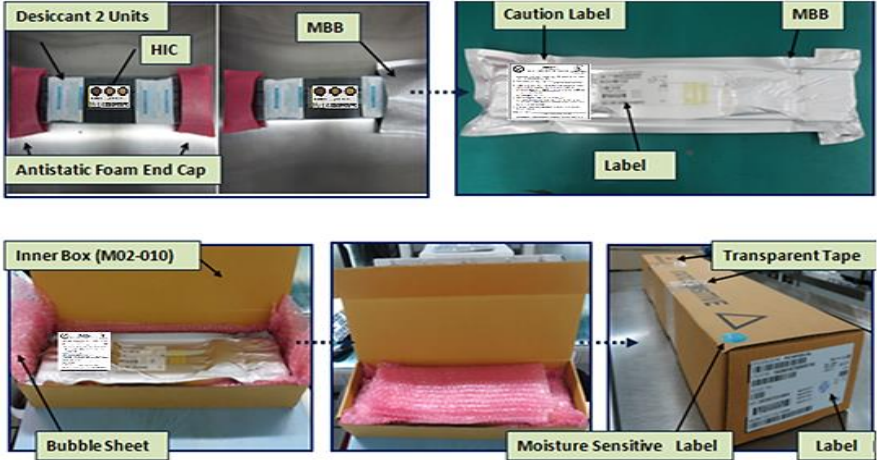


SMART | CONNECTED | SECURE


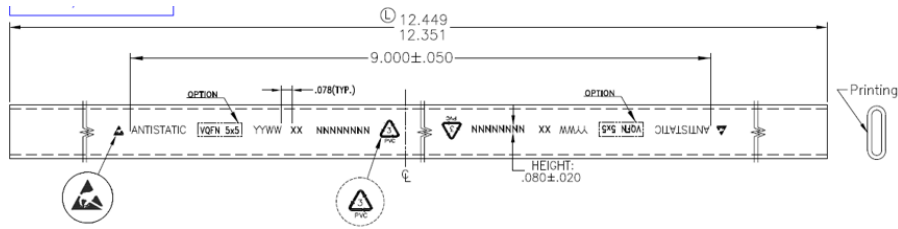
Tube – BQM and Pin 1 Orientation

	UNISEM	MMT				
Base Quantity Multiple (BQM)	60 units/tube	60 units/tube				
Pin 1 orientation	<p>SLP (5X5) Clear Tube (P/N: 47220128)</p> <p>White plug Pin 1 Pin 1 5mm Black plug</p> <p>Full Tube</p> <p>White plug Pin 1 Pin 1 5mm Yellow plug</p> <p>Partial Tube</p>	<p>PROPOSED SKETCH DWG. FOR MICROCHIP TECHNOLOGY MLP2 3x3mm SHIPPING TUBE</p> <p>HEIGHT: 2.03</p> <p>3mm</p> <p>2.25 REF.</p> <p>0.114 ±0.010</p> <p>3.42 ±0.010</p> <p>3.55 ±0.010</p> <p>3.68 ±0.010</p> <p>R0.40(4x)</p> <p>R0.12 MAX.(4x)</p> <p>0.004±0.10 ALL SIDES</p> <p>TUBE COLOUR: CLEAR</p> <p>PRINT COLOUR: BLACK</p> <p>1. ALL DIMENSIONS ARE IN MILLIMETERS (M.O.S.)</p> <p>2. AT LEAST ONE COMPLETE PRINT PER TUBE</p> <p>3. ALL TUBE TOLERANCES TO BE ±0.25, U.O.S.</p> <p>DWG-K07-105</p> <p>PIN 1 SIDE</p> <table border="1"> <thead> <tr> <th>Pin1 Side plug color</th> <th>Opposite Side plug color</th> </tr> </thead> <tbody> <tr> <td>Grey</td> <td>Blue</td> </tr> </tbody> </table>	Pin1 Side plug color	Opposite Side plug color	Grey	Blue
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Tube - Packing Method

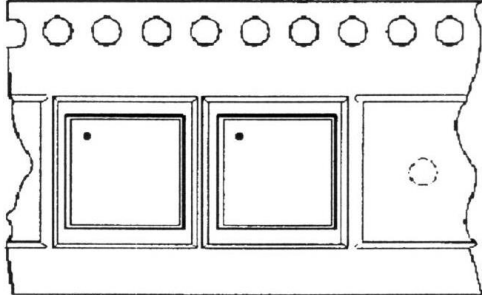
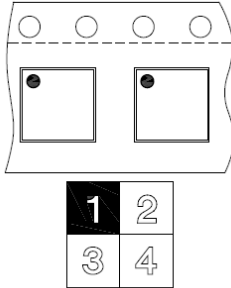
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Carton Box	<table border="1"> <thead> <tr> <th colspan="2">Inner box</th> </tr> <tr> <th>Drawing number</th> <th>Dimension W x L x H (mm)</th> </tr> </thead> <tbody> <tr> <td>UN01003103</td> <td>129x565x80</td> </tr> </tbody> </table>	Inner box		Drawing number	Dimension W x L x H (mm)	UN01003103	129x565x80	<table border="1"> <thead> <tr> <th colspan="2">Inner box</th> <th colspan="2">Carton</th> <th rowspan="2">Number of Inner box(es) per carton</th> </tr> <tr> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">M02-010</td> <td rowspan="5">12.9x56.5x8</td> <td>M01-022 (PP)</td> <td>15.5x62.0x14.0</td> <td>1:1</td> </tr> <tr> <td>M01-028 (C4)</td> <td>28x63.5x11</td> <td>2:1</td> </tr> <tr> <td>M01-029 (C6)</td> <td>28x63.5x15.5</td> <td>3:1</td> </tr> <tr> <td>M01-030 (C8)</td> <td>28x63.5x20</td> <td>4:1</td> </tr> <tr> <td>M01-040 (S6)</td> <td>43x59x19</td> <td>6:1</td> </tr> </tbody> </table>	Inner box		Carton		Number of Inner box(es) per carton	Drawing number	Dimension W x L x H (cm)	Drawing number	Dimension W x L x H (cm)	M02-010	12.9x56.5x8	M01-022 (PP)	15.5x62.0x14.0	1:1	M01-028 (C4)	28x63.5x11	2:1	M01-029 (C6)	28x63.5x15.5	3:1	M01-030 (C8)	28x63.5x20	4:1	M01-040 (S6)	43x59x19	6:1
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Tube – Desiccant and HIC

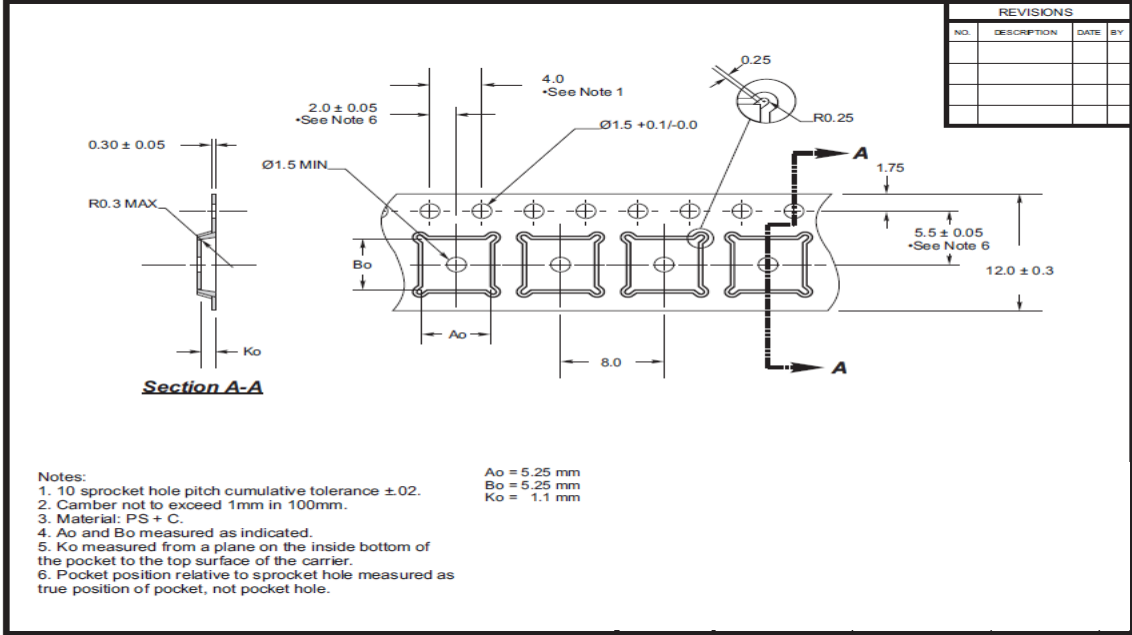
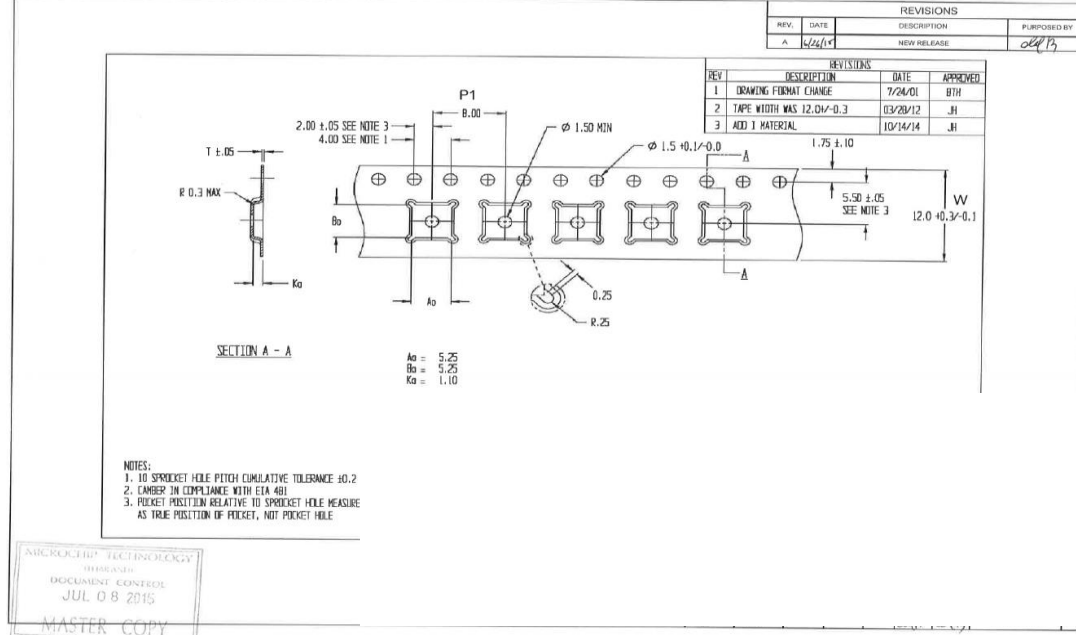
Desiccant and HIC	UNISEM	MMT
		 <p>Technical drawing showing dimensions: 12.449, 12.351, 9.000±.050, .078(TYP.), and HEIGHT: .080±.020. Includes a 'Printing' detail and various symbols like ANTISTATIC and PK.</p>

Location	Tube Length (inch)	Dimension	Tube Color	BQM	Tube per Bag
MMT	12.351 – 12.449	See on drawing	Clear	60	160

Tape and Reel – BQM and Pin-1 Orientation

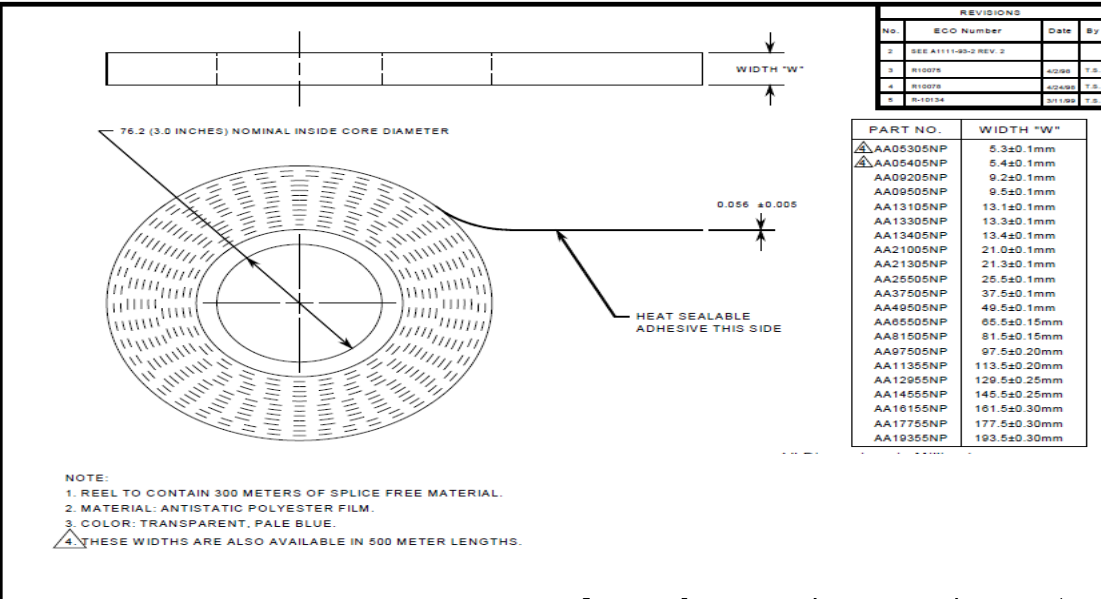
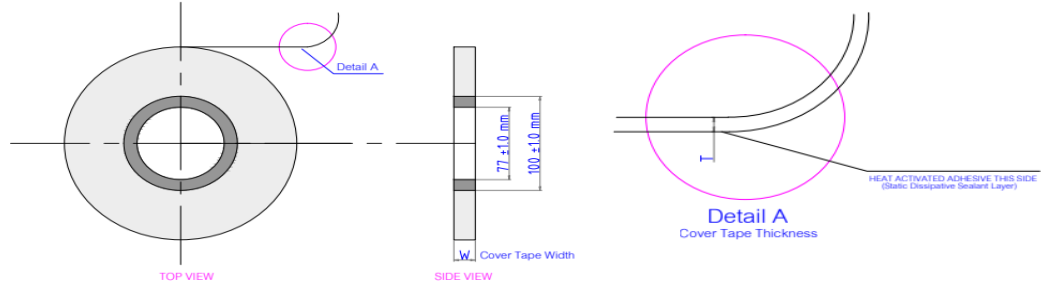
	UNISEM	MMT
Base Quantity Multiple (BQM)	1000 units/reel	1000 units/reel
Pin 1 orientation	 <div data-bbox="919 925 1281 1043" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="background-color: #0070C0; color: white; padding: 2px;">Pin 1 Orientation in T/R</p> <p style="text-align: center;">Quadrant 1</p> </div>	 <div data-bbox="1689 922 2066 1041" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="background-color: #0070C0; color: white; padding: 2px;">Pin 1 Orientation in T/R</p> <p style="text-align: center;">Quadrant 1</p> </div>

Tape and Reel – Carrier Tape

UNISEM	MMT
 <p>Section A-A</p> <p>Notes:</p> <ol style="list-style-type: none"> 10 sprocket hole pitch cumulative tolerance ± 0.2. Camber not to exceed 1mm in 100mm. Material: PS + C. A_0 and B_0 measured as indicated. K_0 measured from a plane on the inside bottom of the pocket to the top surface of the carrier. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole. <p style="text-align: right;"> $A_0 = 5.25$ mm $B_0 = 5.25$ mm $K_0 = 1.1$ mm </p>	 <p>Section A - A</p> <p>NOTES:</p> <ol style="list-style-type: none"> 10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE ± 0.2 CAMBER IN COMPLIANCE WITH IEC 401 POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED AS TRUE POSITION OF POCKET, NOT POCKET HOLE <p style="text-align: right;"> $A_0 = 5.25$ $B_0 = 5.25$ $K_0 = 1.10$ </p>

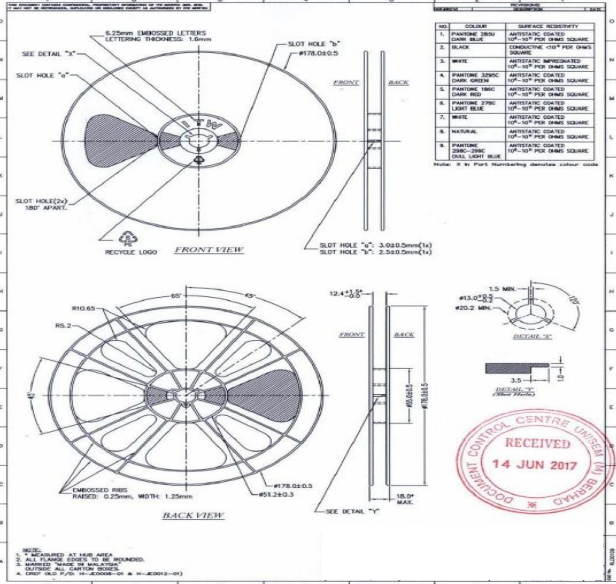
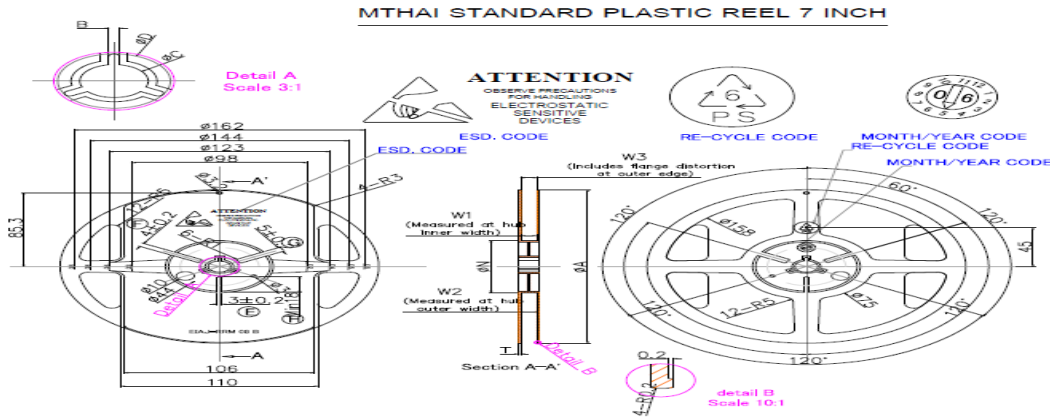

Plant	W (mm.) ± 0.30	P (mm.) ± 0.10	A0 ± 0.1	B0 ± 0.1	K0 ± 0.1
UNISEM	12	8	5.25	5.25	1.10
MMT	12	8	5.25	5.25	1.10

Tape and Reel – Cover Tape

UNISEM	MMT																																																																
 <div style="margin-top: 10px;"> <p>REVISIONS</p> <table border="1" style="font-size: 8px;"> <thead> <tr> <th>No.</th> <th>ECO Number</th> <th>Date</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>SEE A111-99-2 REV. 2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>R10076</td> <td>4/28/98</td> <td>T.S.</td> </tr> <tr> <td>4</td> <td>R10076</td> <td>4/28/98</td> <td>T.S.</td> </tr> <tr> <td>5</td> <td>R10134</td> <td>3/11/99</td> <td>T.S.</td> </tr> </tbody> </table> <table border="1" style="font-size: 8px;"> <thead> <tr> <th>PART NO.</th> <th>WIDTH "W"</th> </tr> </thead> <tbody> <tr><td>AA05305NP</td><td>5.3±0.1mm</td></tr> <tr><td>AA05405NP</td><td>5.4±0.1mm</td></tr> <tr><td>AA09205NP</td><td>9.2±0.1mm</td></tr> <tr><td>AA09505NP</td><td>9.5±0.1mm</td></tr> <tr><td>AA13105NP</td><td>13.1±0.1mm</td></tr> <tr><td>AA13305NP</td><td>13.3±0.1mm</td></tr> <tr><td>AA13405NP</td><td>13.4±0.1mm</td></tr> <tr><td>AA21005NP</td><td>21.0±0.1mm</td></tr> <tr><td>AA21305NP</td><td>21.3±0.1mm</td></tr> <tr><td>AA25505NP</td><td>25.5±0.1mm</td></tr> <tr><td>AA37505NP</td><td>37.5±0.1mm</td></tr> <tr><td>AA49505NP</td><td>49.5±0.1mm</td></tr> <tr><td>AA65505NP</td><td>65.5±0.15mm</td></tr> <tr><td>AA81505NP</td><td>81.5±0.15mm</td></tr> <tr><td>AA97505NP</td><td>97.5±0.20mm</td></tr> <tr><td>AA11355NP</td><td>113.5±0.20mm</td></tr> <tr><td>AA12955NP</td><td>129.5±0.25mm</td></tr> <tr><td>AA14555NP</td><td>145.5±0.25mm</td></tr> <tr><td>AA16155NP</td><td>161.5±0.30mm</td></tr> <tr><td>AA17755NP</td><td>177.5±0.30mm</td></tr> <tr><td>AA19355NP</td><td>193.5±0.30mm</td></tr> </tbody> </table> <p>NOTE: 1. REEL TO CONTAIN 300 METERS OF SPLICE FREE MATERIAL. 2. MATERIAL: ANTISTATIC POLYESTER FILM. 3. COLOR: TRANSPARENT, PALE BLUE. ⚠️ THESE WIDTHS ARE ALSO AVAILABLE IN 500 METER LENGTHS.</p> </div>	No.	ECO Number	Date	BY	2	SEE A111-99-2 REV. 2			3	R10076	4/28/98	T.S.	4	R10076	4/28/98	T.S.	5	R10134	3/11/99	T.S.	PART NO.	WIDTH "W"	AA05305NP	5.3±0.1mm	AA05405NP	5.4±0.1mm	AA09205NP	9.2±0.1mm	AA09505NP	9.5±0.1mm	AA13105NP	13.1±0.1mm	AA13305NP	13.3±0.1mm	AA13405NP	13.4±0.1mm	AA21005NP	21.0±0.1mm	AA21305NP	21.3±0.1mm	AA25505NP	25.5±0.1mm	AA37505NP	37.5±0.1mm	AA49505NP	49.5±0.1mm	AA65505NP	65.5±0.15mm	AA81505NP	81.5±0.15mm	AA97505NP	97.5±0.20mm	AA11355NP	113.5±0.20mm	AA12955NP	129.5±0.25mm	AA14555NP	145.5±0.25mm	AA16155NP	161.5±0.30mm	AA17755NP	177.5±0.30mm	AA19355NP	193.5±0.30mm	
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Plant	Cover Tape Width (mm.)	Cover Tape Thickness (mm.)	Color
UNISEM	9.2 ± 0.1	0.056 ± 0.005	Pale Blue
MMT	9.05 +0.05/-0.15	0.050 +/-0.010	Clear

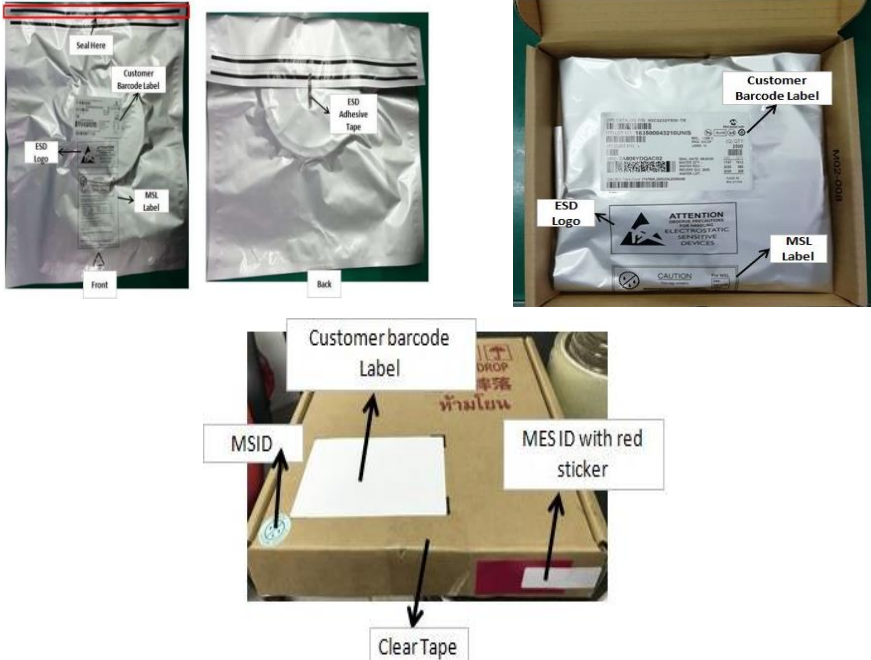

Tape and Reel – Plastic Reel

UNISEM	MMT																																	
 <p>UNISEM Technical Drawing: Includes front and back views, dimensions (e.g., 12.4±1.5mm width, 178.0±0.5mm diameter), and a material specification table.</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>COLOR</th> <th>SURFACE RESISTIVITY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PAINTING 3200C DARK GREY</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>2</td> <td>BLACK</td> <td>CONDUCTIVE COAT (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>3</td> <td>WHITE</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>4</td> <td>PAINTING 3200C DARK GREY</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>5</td> <td>PAINTING 180C LIGHT BLUE</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>6</td> <td>PAINTING 370C LIGHT BLUE</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>7</td> <td>WHITE</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>8</td> <td>PAINTING 180C LIGHT BLUE</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>9</td> <td>PAINTING 3200C DARK GREY</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> <tr> <td>10</td> <td>PAINTING 3200C DARK GREY</td> <td>ARTIFICIAL COATED (10¹⁰ Ω/PK PER SQUARE)</td> </tr> </tbody> </table>	NO.	COLOR	SURFACE RESISTIVITY	1	PAINTING 3200C DARK GREY	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	2	BLACK	CONDUCTIVE COAT (10 ¹⁰ Ω/PK PER SQUARE)	3	WHITE	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	4	PAINTING 3200C DARK GREY	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	5	PAINTING 180C LIGHT BLUE	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	6	PAINTING 370C LIGHT BLUE	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	7	WHITE	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	8	PAINTING 180C LIGHT BLUE	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	9	PAINTING 3200C DARK GREY	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	10	PAINTING 3200C DARK GREY	ARTIFICIAL COATED (10 ¹⁰ Ω/PK PER SQUARE)	 <p>MMT Technical Drawing: MTHAI STANDARD PLASTIC REEL 7 INCH. Includes dimensions (e.g., 18.40mm width, 178±2.0mm diameter), ESD code markings, and a RE-CYCLE CODE (PS).</p> <p>ATTENTION: OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.</p>
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Plant	Diameter (mm.)	Hub (mm.)	Width (mm.)	Color
UNISEM	178± 0.5	55± 0.5	12.4+1.5	Light Blue
MMT	178+2.0	60.5±0.5	18.40	Dark Blue

Tape and Reel –Packing Method

Antistatic Shielding Bag/Moisture Barrier Bag/Packing Process

UNISEM	MMT
 <p>UNISEM packing process diagrams showing:</p> <ul style="list-style-type: none"> Front view of a moisture barrier bag with labels: Seal Here, Customer Barcode Label, ESD Logo, MSL Label. Back view of the moisture barrier bag with labels: ESD Adhesive Tape. Inner box view showing labels: Customer Barcode Label, ESD Logo, MSL Label, and a warning label: ATTENTION ELECTROSTATIC SENSITIVE DEVICES. Outer box view showing labels: Customer barcode Label, MSID, MESID with red sticker, and Clear Tape. 	<p>Inner Box:</p>  <p>MMT inner box packing diagrams showing:</p> <ul style="list-style-type: none"> Label on a blue tray. Desiccant 2 Units on a blue tray. HIC (Humidity Indicator Card) on a blue tray. Moisture Barrier Bag with Caution Label and Label. Transparent Tape on the inner box. Label on the inner box. Caution Label on the inner box. Moisture Sensitive Label on the inner box. Label on the inner box. Inner Box (M02-008) with labels: DO NOT DROP, 禁止掉落, ห้ามโยน, and a barcode label.

Tape and Reel –Packing Method

	UNISEM	MMT																														
Carton Box		Outer Box:																														
	<table border="1"> <thead> <tr> <th colspan="2">Inner box</th> </tr> <tr> <th>Drawing number</th> <th>Dimension W x L x H (mm)</th> </tr> </thead> <tbody> <tr> <td>UN01009201</td> <td>204x220x35</td> </tr> </tbody> </table>	Inner box		Drawing number	Dimension W x L x H (mm)	UN01009201	204x220x35	<table border="1"> <thead> <tr> <th colspan="5">Inner per Outer Carton For Packing And Shipping with inner box</th> </tr> <tr> <th colspan="2">Inner box</th> <th colspan="2">Carton</th> <th rowspan="2">Number of Inner box(es) per carton</th> </tr> <tr> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> <th>Drawing number</th> <th>Dimension W x L x H (cm)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">M02-008</td> <td rowspan="3">22x20.4x3.3</td> <td>M01-044 (SM)</td> <td>37.0x38.0x11.0</td> <td>2 : 1</td> </tr> <tr> <td>M01-112 (LO)</td> <td>20.6x24.0x22.9</td> <td>5 : 1</td> </tr> <tr> <td>M01-038 (RT)</td> <td>20x46x23</td> <td>10 : 1</td> </tr> </tbody> </table>	Inner per Outer Carton For Packing And Shipping with inner box					Inner box		Carton		Number of Inner box(es) per carton	Drawing number	Dimension W x L x H (cm)	Drawing number	Dimension W x L x H (cm)	M02-008	22x20.4x3.3	M01-044 (SM)	37.0x38.0x11.0	2 : 1	M01-112 (LO)	20.6x24.0x22.9	5 : 1	M01-038 (RT)	20x46x23
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CENO-09GNHQ147 - CCB 6263 Final Notice: Qualification of MMT as an additional final test site for selected SY58031UMG, SY58032UMG, SY58033UMG, SY58032UMG-TR and SY58033UMG-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

Affected Catalog Part Numbers (CPN)

SY58031UMG

SY58032UMG

SY58033UMG

SY58032UMG-TR

SY58033UMG-TR



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN#: CENO-09GNHQ147

Date

April 28, 2023

Qualification of MMT as an additional final test site for selected SY58031UMG, SY58032UMG, SY58033UMG, SY58032UMG-TR and SY58033UMG-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

Purpose: Qualification of MMT as an additional final test site for selected SY58031UMG, SY58032UMG, SY58033UMG, SY58032UMG-TR and SY58033UMG-TR catalog part numbers (CPN) available in 32L VQFN (5x5x0.9mm) package.

CCB No.: 6263

Test / Evaluation	Test Conditions / Parameters	Results
Correlation Plan	50 correlation units of each device type (original site/tester to new site/tester). Parametric correlation of ATE measured data sheet parameters 5,000 units yield sample for bin comparison (original site/tester to new site/tester). 50 untested units sample (new site/tester to original site/tester) for bin comparison and correlation.	Pass
Equipment correlation plan	Perform final test at original site record yield and bin data. Perform same final test using the same units at destination site. Compare data.	Pass