



Product Change Notification / ASER-09RAOP971

Date:

31-Aug-2022

Product Category:

Clock and Timing - Oscillators

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4928 Final Notice: Qualification of STAR as an additional final test site for selected DSC100xxx and DSC8xxx device families available in 4L VDFN (3.2x2.5x0.9mm), (2.0x2.5mm) and (3.2x5.0x0.9mm) packages.

Affected CPNs:

[ASER-09RAOP971_Affected_CPN_08312022.pdf](#)

[ASER-09RAOP971_Affected_CPN_08312022.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 STAR as an additional final test site for selected DSC100xxx and DSC8xxx device families available in 4L VDFN (3.2x2.5x0.9mm), (2.0x2.5mm) and (3.2x5.0x0.9mm) packages.

Pre and Post Change Summary:

		Pre Change	Post Change	
Assembly Site		UTAC Thai Limited (NSEB)	UTAC Thai Limited (NSEB)	Stars Microelectronics (Thailand) Public Company Limited (STAR)
Base Quantity Multiple (BQM)	Tape and Reel	No Change See Pre and Post Change Summary for Comparison.		
	Tube	No Change See Pre and Post Change Summary for Comparison.		
Pin 1 Orientation	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1
	Tube	No Change See Pre and Post Change Summary for Comparison.		
Carrier Tape		See Pre and Post Change Summary for Comparison.		
Cover Tape		See Pre and Post Change Summary for Comparison.		
Plastic Reel		See Pre and Post Change Summary for Comparison.		
Packing Method		See Pre and Post Change Summary for Comparison.		

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying STAR as an additional final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:September 1, 2022 (date code: 2236)

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

Time Table Summary:

	November 2021					>	August 2022					September 2022				
Workweek	4	4	4	4	4		3	3	3	3	36	36	37	3	3	4

	5	6	7	8	9		2	3	4	5				8	9	0
Initial PCN Issue Date			x													
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:November 18, 2021: Issued initial notification.

August 31, 2022: Issued final notification. Updated subject, description and affected CPN list to add DSC8 products as part of the scope and include catalog part numbers (CPN) released prior issuance of the Final PCN. Attached the Qualification Report. Provided estimated first ship date to be on September 1, 2022.

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

Attachments:

[PCN_ASER-09RAOP971 Pre and Post Change Summary 1 of 2.pdf](#)

[PCN_ASER-09RAOP971 Pre and Post Change Summary 2 of 2.pdf](#)

[PCN_ASER-09RAOP971_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.

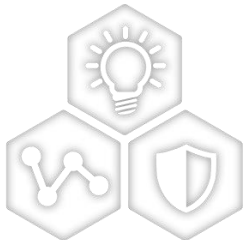
If you wish to [change your PCN profile, including opt out](#), please go to the [PCN home page](#) select login

and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

CCB 4928
Pre and Post Change Summary
1 of 2
PCN #: ASER-09RAOP971



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

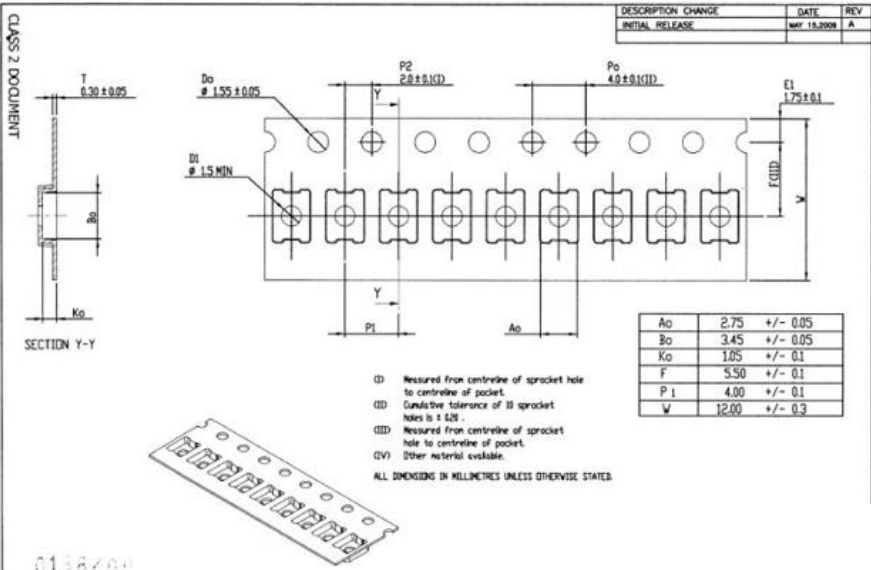
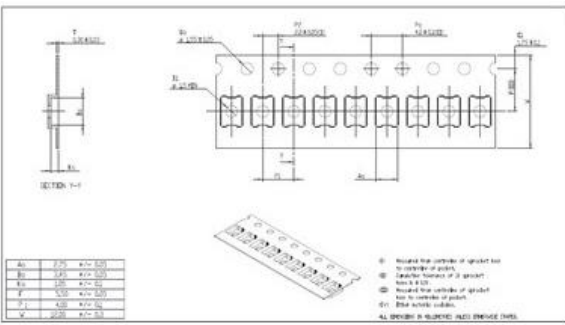
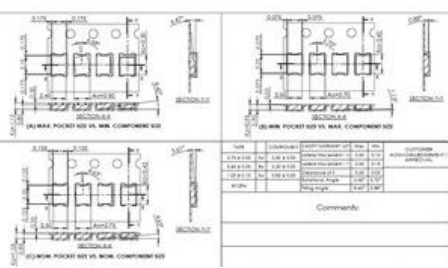


SMART | CONNECTED | SECURE

Change Summary –H4A Packing TR

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	T/R	Pin1 Orientation	Quadrant 1	Quadrant 1	No
2	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	T/R	BQM	1,000 3,000	1,000 3,000	No

Change Summary –H4A Packing TR

Description	NSEB	STAR																																																															
Carrier Tape	<p>CLASS 2 DOCUMENT</p> <p>DESCRIPTION CHANGE INITIAL RELEASE</p> <p>DATE MAY 15, 2008</p> <p>REV A</p>  <p>SECTION Y-Y</p> <table border="1"><thead><tr><th></th><th></th><th></th></tr></thead><tbody><tr><td>Ao</td><td>2.75</td><td>+/- 0.05</td></tr><tr><td>Bo</td><td>3.45</td><td>+/- 0.05</td></tr><tr><td>Ko</td><td>1.05</td><td>+/- 0.1</td></tr><tr><td>F</td><td>5.50</td><td>+/- 0.1</td></tr><tr><td>Pl</td><td>4.00</td><td>+/- 0.1</td></tr><tr><td>W</td><td>12.00</td><td>+/- 0.3</td></tr></tbody></table> <p>① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.26. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available.</p> <p>ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p> <p>0138700</p> <p>STK# SAM26028011 FILE: SAM26028011.DWG D:\DRAWING\TNR ECN NO.</p> <p>NOTE: - ALL DIMENSIONS ARE IN mm.</p>				Ao	2.75	+/- 0.05	Bo	3.45	+/- 0.05	Ko	1.05	+/- 0.1	F	5.50	+/- 0.1	Pl	4.00	+/- 0.1	W	12.00	+/- 0.3	 <p>SECTION Y-Y</p> <table border="1"><thead><tr><th></th><th></th><th></th></tr></thead><tbody><tr><td>Ao</td><td>2.75</td><td>+/- 0.05</td></tr><tr><td>Bo</td><td>3.45</td><td>+/- 0.05</td></tr><tr><td>Ko</td><td>1.05</td><td>+/- 0.1</td></tr><tr><td>F</td><td>5.50</td><td>+/- 0.1</td></tr><tr><td>Pl</td><td>4.00</td><td>+/- 0.1</td></tr><tr><td>W</td><td>12.00</td><td>+/- 0.3</td></tr></tbody></table> <p>① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.26. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available.</p> <p>ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p>  <p>SECTION Y-Y</p> <table border="1"><thead><tr><th></th><th></th><th></th></tr></thead><tbody><tr><td>Ao</td><td>2.75</td><td>+/- 0.05</td></tr><tr><td>Bo</td><td>3.45</td><td>+/- 0.05</td></tr><tr><td>Ko</td><td>1.05</td><td>+/- 0.1</td></tr><tr><td>F</td><td>5.50</td><td>+/- 0.1</td></tr><tr><td>Pl</td><td>4.00</td><td>+/- 0.1</td></tr><tr><td>W</td><td>12.00</td><td>+/- 0.3</td></tr></tbody></table> <p>① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.26. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available.</p> <p>ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p>				Ao	2.75	+/- 0.05	Bo	3.45	+/- 0.05	Ko	1.05	+/- 0.1	F	5.50	+/- 0.1	Pl	4.00	+/- 0.1	W	12.00	+/- 0.3				Ao	2.75	+/- 0.05	Bo	3.45	+/- 0.05	Ko	1.05	+/- 0.1	F	5.50	+/- 0.1	Pl	4.00	+/- 0.1	W	12.00	+/- 0.3
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Change Summary –H4A Packing TR

Description	NSEB	STAR
Cover Tape	<div><div>CLASS 2 DOCUMENT</div><div><div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> 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Change Summary –H4A Packing TR

Description

NSEB

STAR

Plastic Reel

Technical drawing of NSEB Plastic Reel. The drawing includes a front view, a side view (Section A-A), and detail views (Detail A and Detail B). Dimensions are provided in millimeters. The material is High impact polystyrene. The drawing also includes a table of dimensions, a material code, and a date code.

TABLE 1

PART NUMBER	#A±2.00	#B±0.50	B ±0.50	#C ±0.50	#D±0.20	T±0.10	W1 ±0.50	W2 (Max)	W3
87-12-2-4-E	178.00	60.50	3.20	13.00	21.00	1.80	12.40	18.40	12.35 (15.40)

MATERIAL CODE
High impact polystyrene

DATE CODE
MONTH/YEAR CODE

RE-CYCLE CODE

ATTENTION
DANGER! PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

NOTES:
1. Colour is Dark blue.
2. Date code on flang should be same manufactory month.
3. Width code on flang should be same hub width.
4. All dimensions in millimeters unless otherwise stated.
5. Unspecified dimension tolerance should be ±0.10 mm.
6. Must conform to E.I.A. standard.

Technical drawing of STAR Plastic Reel. The drawing includes a front view, a side view (Section A-A), and detail views (Detail A and Detail B). Dimensions are provided in millimeters. The material is High impact polystyrene. The drawing also includes a table of dimensions, a material code, and a date code.

TABLE 1

PART NUMBER	#A±2.00	#B±0.50	B ±0.50	#C ±0.50	#D±0.20	T±0.10	W1 ±0.50	W2 (Max)	W3
87-12-2-4-E	178.00	60.50	3.20	13.00	21.00	1.80	12.40	18.40	12.35 (15.40)

MATERIAL CODE
High impact polystyrene


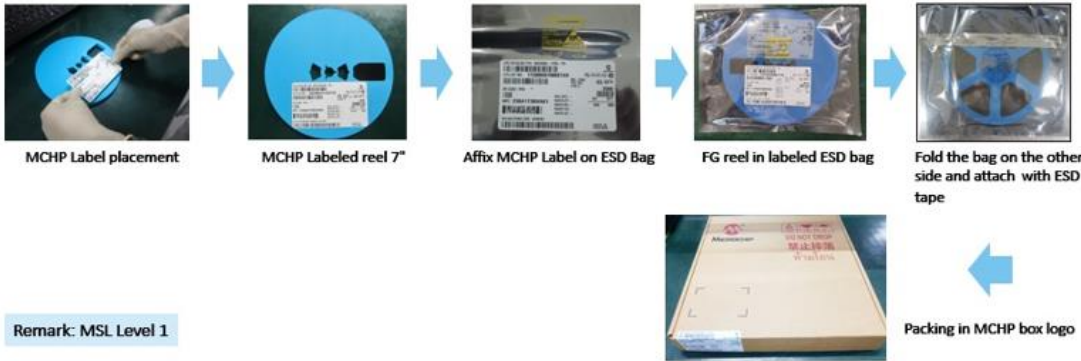
DATE CODE
MONTH/YEAR CODE

RE-CYCLE CODE

ATTENTION
DANGER! PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

NOTES:
1. Colour is Dark blue.
2. Date code on flang should be same manufactory month.
3. Width code on flang should be same hub width.
4. All dimensions in millimeters unless otherwise stated.
5. Unspecified dimension tolerance should be ±0.10 mm.
6. Must conform to E.I.A. standard.

Change Summary –H4A Packing TR

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process diagram shows a sequence of steps: 1. A blue reel with an 'ESD logo' and an 'MCHP Label'. 2. The reel is placed in a silver ESD bag, also labeled 'MCHP Label'. 3. The bag is sealed with 'Filament tape'. 4. The sealed bag is placed in a cardboard box, which is also labeled 'MCHP Label'.</p>	 <p>The STAR packing process diagram shows a sequence of steps: 1. 'MCHP Label placement' on a blue reel. 2. 'MCHP Labeled reel 7"'. 3. 'Affix MCHP Label on ESD Bag'. 4. 'FG reel in labeled ESD bag'. 5. 'Fold the bag on the other side and attach with ESD tape'. 6. 'Packing in MCHP box logo' (a cardboard box). A 'Remark: MSL Level 1' is noted.</p>


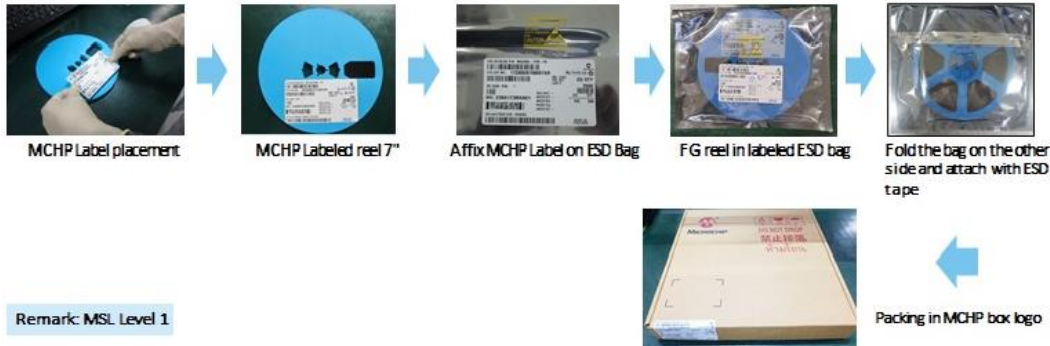
Change Summary –J5A Packing TR

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	J5A	VDFN COL-4 (2.0x2.5mm)	T/R	Pin1 Orientation	Quadrant 1	Quadrant 1	No
2	J5A	VDFN COL-4 (2.0x2.5mm)	T/R	BQM	1,000 3,000 10,000	1,000 3,000 10,000	No

Change Summary –J5A Packing TR

Description	NSEB	STAR																								
Cover Tape	<div><div>CLASS 2 DOCUMENT</div><div><table><thead><tr><th>DCN NO.</th><th>DESCRIPTION OF CHANGE</th><th>REV DATE</th><th>REV</th></tr></thead><tbody><tr><td></td><td>INITIAL RELEASE</td><td></td><td>A</td></tr><tr><td></td><td>REVISE DRAWING AND ADD STOCK 20027001</td><td></td><td>B</td></tr><tr><td></td><td>REVISE DIMENSION</td><td></td><td>C</td></tr><tr><td>D1099/15</td><td>CHANGE TITLE NAME: COVER TAPE 5.3MM TO COVER TAPE 5.4 MM & ADD T.DWG NO.</td><td>NOV 24,15</td><td>D</td></tr></tbody></table></div><div><div><div><div>POLYETHYLENE TEREPHTHALATE</div><div>HEAT ACTIVATED ADHESIVE</div></div><div><p>SECTION Y-Y</p></div></div><div><div><p>SECTION X-X</p></div></div></div><div><table><thead><tr><th>STANDARD COVER TAPE WIDTH* (W±0.1)</th><th>CARRIER TAPE WIDTH</th></tr></thead><tbody><tr><td>5.4</td><td>8</td></tr></tbody></table><div><p>NOTES:</p><ol style="list-style-type: none">1. THICKNESS: 0.040-0.060 mm.2. STANDARD LENGTH: 300 m, 500m.3. TENSILE STRENGTH: 7.75 kg/mm sq.4. ELONGATION: 120%5. SURFACE RESISTANCE: 1E+4 TO 9.9E+10 ohms.6. SURFACE RESISTIVITY: 1E+5 TO 9.9E+11 ohms per sq.7. RECOMMENDED SHELF LIFE: TWO YEAR FROM MANUFACTURING DATE.8. LUMINOUS TRANSMITTANCE: .66%9. HAZE: .27%*10. OTHER COVER TAPE WIDTH REFER TO M4.08-04</div></div><div><div>REV: COVER TAPES / J5A J5B J5C J5D J5E J5F J5G J5H J5I J5J J5K J5L J5M J5N J5O J5P J5Q J5R J5S J5T J5U J5V J5W J5X J5Y J5Z J6A J6B J6C J6D J6E J6F J6G J6H J6I J6J J6K J6L J6M J6N J6O J6P J6Q J6R J6S J6T J6U J6V J6W J6X J6Y J6Z J7A J7B J7C J7D J7E J7F J7G J7H J7I J7J J7K J7L J7M J7N J7O J7P J7Q J7R J7S J7T J7U J7V J7W J7X J7Y J7Z J8A J8B J8C J8D J8E J8F J8G J8H J8I J8J J8K J8L J8M J8N J8O J8P J8Q J8R J8S J8T J8U J8V J8W J8X J8Y J8Z J9A J9B J9C J9D J9E J9F J9G J9H J9I J9J J9K J9L J9M J9N J9O J9P J9Q J9R J9S J9T J9U J9V J9W J9X J9Y J9Z J10A J10B J10C J10D J10E J10F J10G J10H J10I J10J J10K J10L J10M J10N J10O J10P J10Q J10R J10S J10T J10U J10V J10W J10X J10Y J10Z</div><div>NOTE: ALL DIMENSION ARE IN mm.</div></div></div>	DCN NO.	DESCRIPTION OF CHANGE	REV DATE	REV		INITIAL RELEASE		A		REVISE DRAWING AND ADD STOCK 20027001		B		REVISE DIMENSION		C	D1099/15	CHANGE TITLE NAME: COVER TAPE 5.3MM TO COVER TAPE 5.4 MM & ADD T.DWG NO.	NOV 24,15	D	STANDARD COVER TAPE WIDTH* (W±0.1)	CARRIER TAPE WIDTH	5.4	8	<div><div><div><div>POLYESTER (PET)</div><div>MIDDLE LAYER</div><div>HEAT SEALANT LAYER</div></div><div><p>SECTION Y-Y</p></div></div><div><div><p>SECTION X-X</p></div></div></div>
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STANDARD COVER TAPE WIDTH* (W±0.1)	CARRIER TAPE WIDTH																									
5.4	8																									

Change Summary –J5A Packing TR

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process diagram shows a sequence of steps: 1. A blue reel with an 'ESD logo' and an 'MCHP Label'. 2. The reel is placed in a silver ESD bag, which also has an 'MCHP Label'. 3. The bag is sealed with 'Filament tape'. 4. The sealed bag is placed in a cardboard box. 5. The box is sealed and labeled with an 'MCHP Label'.</p>	 <p>The STAR packing process diagram shows a sequence of steps: 1. 'MCHP Label placement' on a blue reel. 2. 'MCHP Labeled reel 7"'. 3. 'Affix MCHP Label on ESD Bag'. 4. 'FG reel in labeled ESD bag'. 5. 'Fold the bag on the other side and attach with ESD tape'. 6. 'Packing in MCHP box logo' (shown as a separate box). A 'Remark: MSL Level 1' is noted below the first three steps.</p>

Change Summary –H6A Packing TR

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	T/R	Pin1 Orientation	Quadrant 1	Quadrant 1	No
2	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	T/R	BQM	1,000	1,000	No

Change Summary –H6A Packing TR

Description

Carrier Tape

NSEB

CLASS 2 DOCUMENT

DESCRIPTION	CHANGE	DATE	REV
INITIAL RELEASE		APR. 21.09	A

Ao	3.45	+/- 0.1
Bo	5.25	+/- 0.1
Ko	1.10	+/- 0.1
F	5.50	+/- 0.1
P1	8.00	+/- 0.1
W	12.00	+/- 0.3

(i) Measured from centreline of sprocket hole to centreline of pocket.
 (ii) Cumulative tolerance of 10 sprocket holes is ± 0.20 .
 (iii) Measured from centreline of sprocket hole to centreline of pocket.
 (iv) Other material available.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

0167/09

STK# SAMCAD11.26028012
 FILE: 26028012.DWG
 D:\KATTANAM\DWG
 ECN NO.

2 OF 2

PROJECTION
 UNLESS
 OTHERWISE

STAR

DESCRIPTION	CHANGE	DATE	REV
INITIAL RELEASE		APR. 21.09	A

Ao	3.45	+/- 0.1
Bo	5.25	+/- 0.1
Ko	1.10	+/- 0.1
F	5.50	+/- 0.1
P1	8.00	+/- 0.1
W	12.00	+/- 0.3

(i) Measured from centreline of sprocket hole to centreline of pocket.
 (ii) Cumulative tolerance of 10 sprocket holes is ± 0.20 .
 (iii) Measured from centreline of sprocket hole to centreline of pocket.
 (iv) Other material available.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

0167/09

STK# SAMCAD11.26028012
 FILE: 26028012.DWG
 D:\KATTANAM\DWG
 ECN NO.

2 OF 2

PROJECTION
 UNLESS
 OTHERWISE

Change Summary –H6A Packing TR

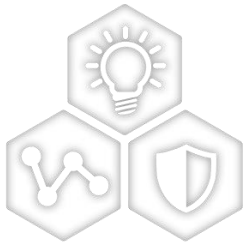
Description	NSEB	STAR
Cover Tape	<div><div>CLASS 2 DOCUMENT</div><div><div><div><div><div></div><div>POLYETHYLENE TEREPHTHALATE</div></div><div><div></div><div>HEAT ACTIVATED ADHESIVE</div></div></div></div><div><div><div><div></div><div>Y</div></div><div><div></div><div>Y</div></div><div><div></div><div>X</div></div><div><div></div><div>X</div></div></div><div><div><div><div></div><div>W</div></div><div><div></div><div>76.5±1.0</div></div><div><div></div><div>SECTION X - X</div></div></div></div><div><div>**WIDTH 9.2 mm ±0.1**</div><div><div>Note</div><div>1. THICKNESS : 0.040–0.060 mm</div><div>2. STANDARD LENGTH : 500m</div><div>3. TENSILE STRENGTH : 7.75kg/mm sq</div><div>4. ELONGATION : 120–140%</div><div>5. SURFACE RESISTIVITY : 10¹⁰ OHMS/SQ MAX. (STATIC DISSIPATIVE)</div><div>6. PEEL STRENGTH CONFORMS TO EIA SPEC:55±25g</div><div>7. RECOMMENDED SHELF LIFE: TWO YEAR FROM MANUFACTURING DATE</div><div>8. LUMINOUS TRANSMITTANCE : 93%</div><div>9. HAZE : 27%</div><div>*10 OTHER COVER TAPE WIDTH REFER TO WI 4.08–04</div></div></div><div><div>* 0417/09</div><div><div>DATE: 2802/2002</div><div>FILE: 2802/2002.DWG</div><div>BY: [signature]</div><div>ECN</div></div><div>NOTE : - ALL DIMENSIONS ARE IN mm.</div></div></div></div></div>	<div><div><div><div><div></div><div>POLYESTER (PET)</div></div><div><div></div><div>MIDDLE LAYER</div></div><div><div></div><div>HEAT SEALANT LAYER</div></div></div><div><div><div><div></div><div>Y</div></div><div><div></div><div>Y</div></div><div><div></div><div>X</div></div><div><div></div><div>X</div></div></div><div><div><div><div></div><div>W</div></div><div><div></div><div>76.5±1.0</div></div><div><div></div><div>SECTION X - X</div></div></div></div><div><div><div><div></div><div>SECTION Y - Y</div></div><div><div></div><div>T=0.046</div></div></div></div></div></div></div>

**Please open attachment
PCN_ASER-09RAOP971_Pre and Post Change
Summary 2 of 2 for continued comparisons.**

CCB 4928
Pre and Post Change Summary
2 of 2
PCN #: ASER-09RAOP971

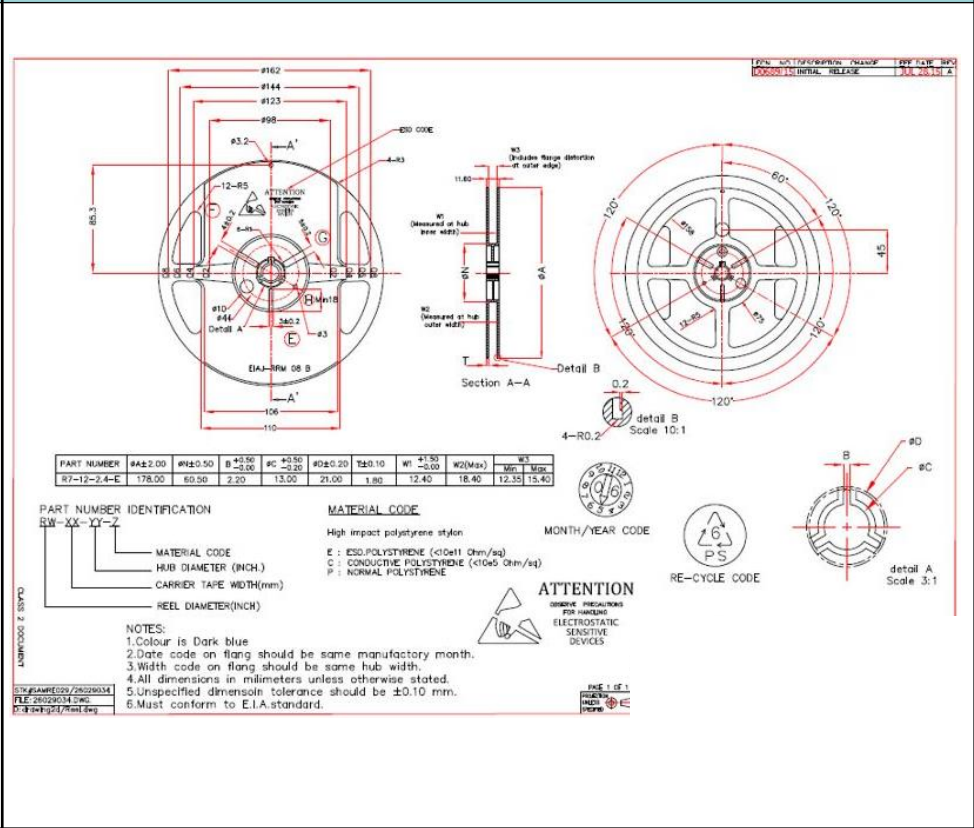
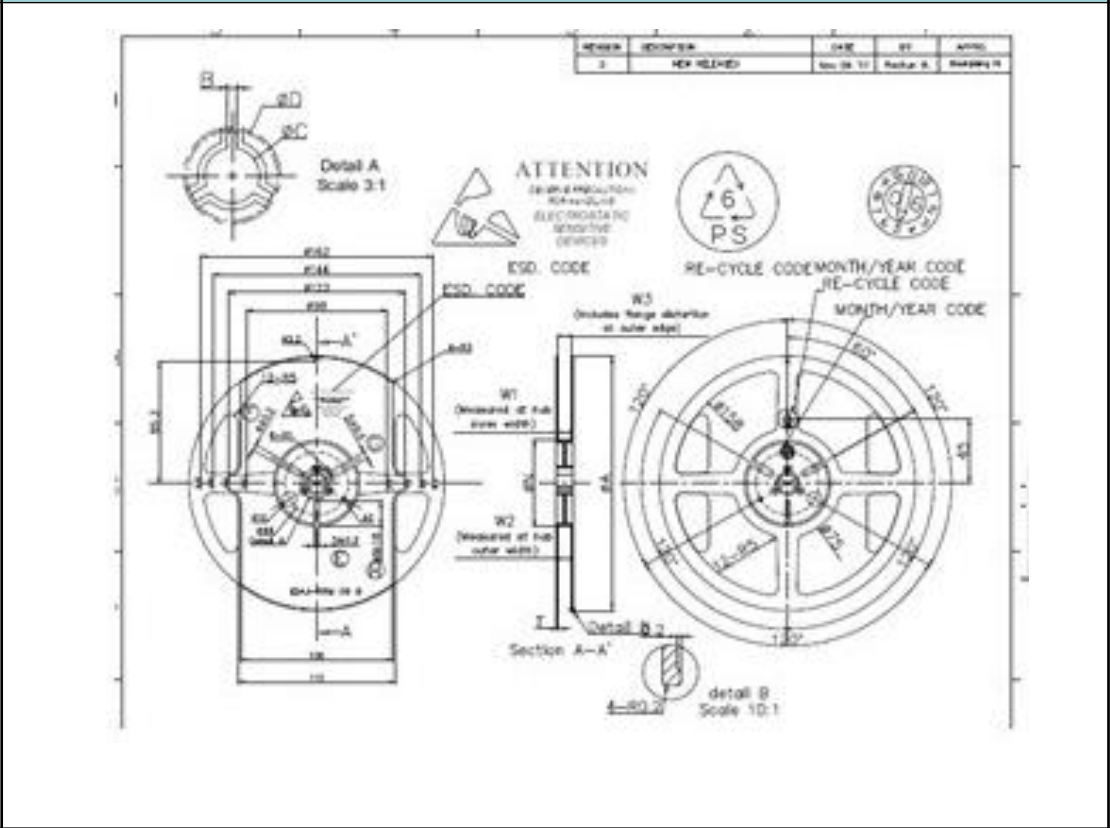


A Leading Provider of Smart, Connected and Secure Embedded Control Solutions

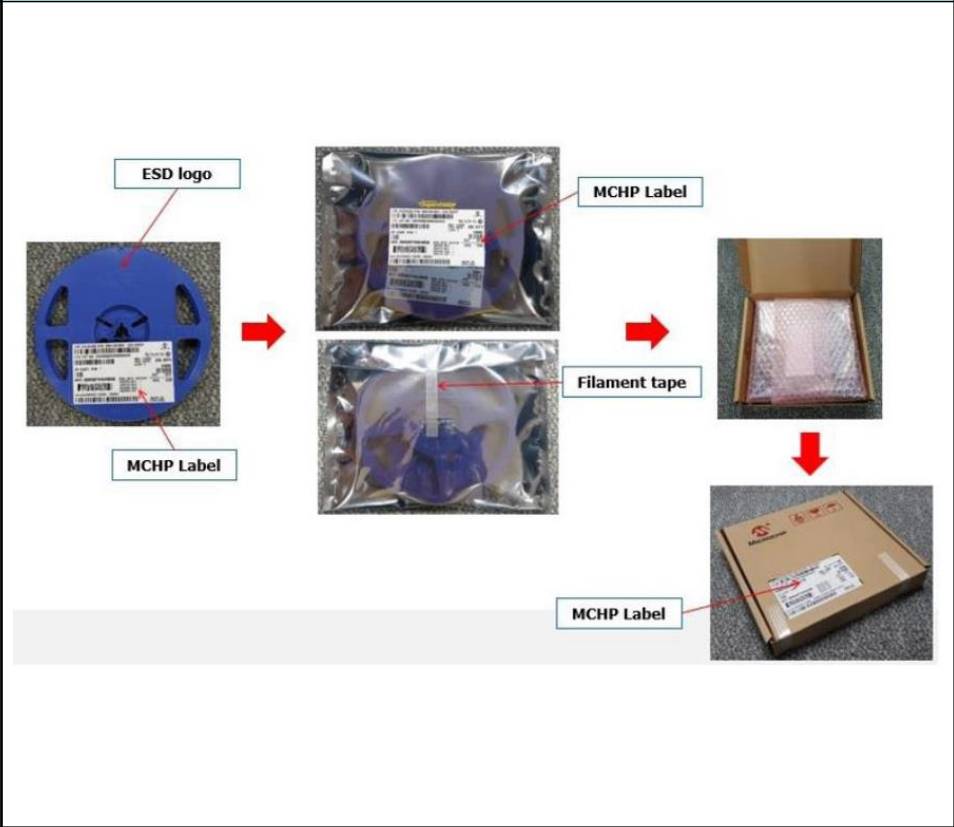
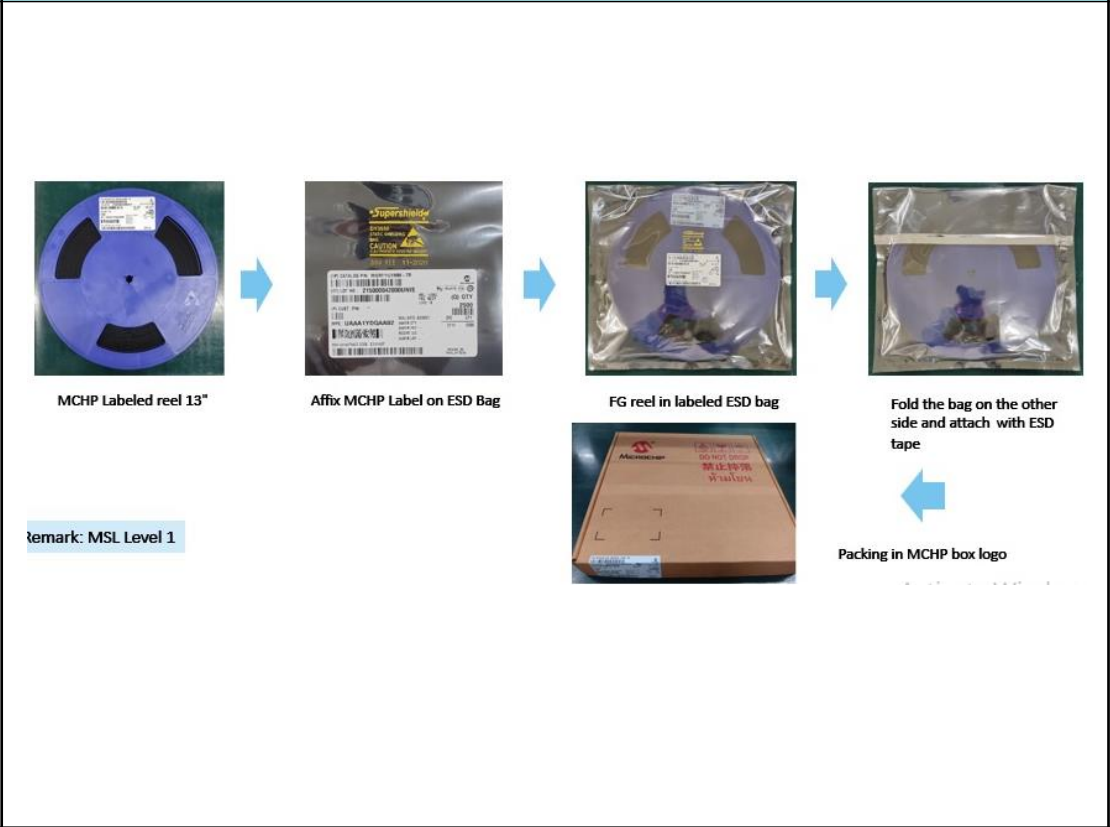


SMART | CONNECTED | SECURE

Change Summary –H6A Packing TR

Description	NSEB	STAR
<p>Plastic Reel</p>	 <p>Technical drawing of NSEB plastic reel showing dimensions, material codes, and identification codes. The drawing includes a top view, a side view (Section A-A), and a detail view (Detail B). Dimensions are given in millimeters. Material codes are listed as E: ESD POLYSTYRENE (<10e11 Ohm/sq), C: CONDUCTIVE POLYSTYRENE (<10e5 Ohm/sq), and P: NORMAL POLYSTYRENE. Identification codes are listed as SW-XX-YY-Z, where SW is the material code, XX is the hub diameter (INCH.), YY is the carrier tape width (mm), and Z is the reel diameter (INCH.).</p>	 <p>Technical drawing of STAR plastic reel showing dimensions, material codes, and identification codes. The drawing includes a top view, a side view (Section A-A), and a detail view (Detail B). Dimensions are given in millimeters. Material codes are listed as E: ESD POLYSTYRENE (<10e11 Ohm/sq), C: CONDUCTIVE POLYSTYRENE (<10e5 Ohm/sq), and P: NORMAL POLYSTYRENE. Identification codes are listed as SW-XX-YY-Z, where SW is the material code, XX is the hub diameter (INCH.), YY is the carrier tape width (mm), and Z is the reel diameter (INCH.).</p>

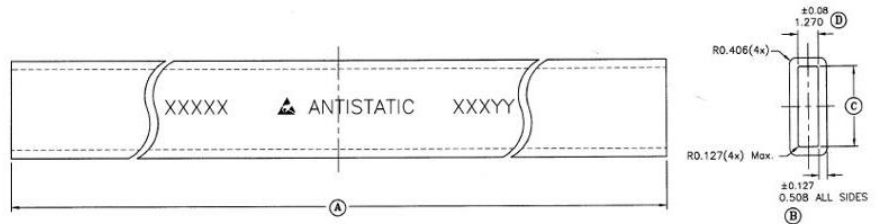
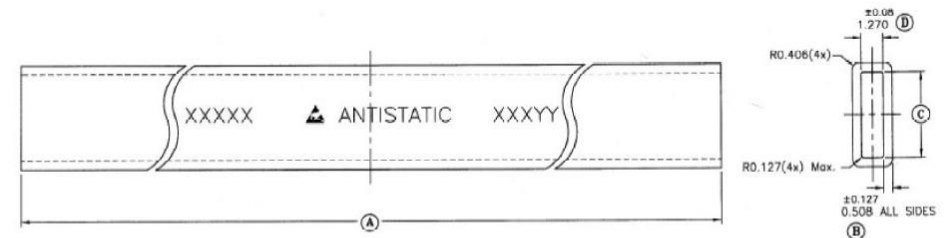
Change Summary –H6A Packing TR

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process is shown in a sequence of five images connected by red arrows. 1. A blue reel with an 'ESD logo' and an 'MCHP Label'. 2. A silver ESD bag with an 'MCHP Label' and 'Filament tape' applied. 3. A brown cardboard box with an 'MCHP Label'. 4. A brown cardboard box with an 'MCHP Label'. 5. A brown cardboard box with an 'MCHP Label'.</p>	 <p>The STAR packing process is shown in a sequence of five images connected by blue arrows. 1. A blue reel labeled 'MCHP Labeled reel 13"'. 2. A silver ESD bag with an 'MCHP Label' and 'Supershielder' logo, labeled 'Affix MCHP Label on ESD Bag'. 3. A silver ESD bag with a blue reel inside, labeled 'FG reel in labeled ESD bag'. 4. A brown cardboard box with an 'MCHP Label' and 'Supershielder' logo, labeled 'Packing in MCHP box logo'. 5. A brown cardboard box with an 'MCHP Label' and 'Supershielder' logo, labeled 'Fold the bag on the other side and attach with ESD tape'. A blue box with the text 'Remark: MSL Level 1' is also shown.</p>


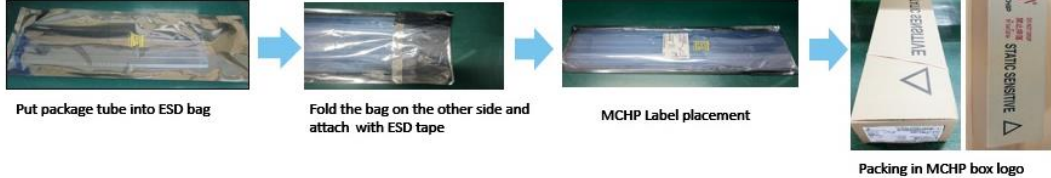
Change Summary –H4A Packing TUBE

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	TUBE	Pin1 Orientation	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	No
2	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	TUBE	BQM	110	110	No
3	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	TUBE	Tube Color	Clear	Clear	No
5	H4A	VDFN COL-4 (3.2x2.5x0.9mm)	TUBE	PLUG COLOR	Plug pin one : GREY Opposite pin one : BLUE	Plug pin one : GREY Opposite pin one : BLUE	No

Change Summary –H4A Packing TUBE

Description	NSEB	STAR																																																
Tube Dimension	<div data-bbox="328 448 1258 1090"> <div data-bbox="1029 448 1258 491"> <table> <tr> <th>DESCRIPTION OF CHANGE</th><th>DATE</th><th>REV</th></tr> <tr> <td>INITIAL RELEASE</td><td>FEB 01,2012</td><td>A</td></tr> </table> </div> <div data-bbox="354 534 1233 755">  </div> <table data-bbox="443 826 1016 891"> <tr> <th>PACKAGE BODY</th><th>STOCK NUMBER</th><th>TUBE COLOUR</th><th>PRINT COLOUR</th><th>DIMENSION "C"</th><th>DIMENSION "A"</th></tr> <tr> <td>2.5x2.5 mm.</td><td>26020378</td><td>CLEAR</td><td>BLUE</td><td>3.00±0.08</td><td>381.00±1.14</td></tr> <tr> <td>7.75x6.25 mm.</td><td>26020585</td><td>CLEAR</td><td>BLUE</td><td>6.75±0.08</td><td>381.00±1.14</td></tr> </table> <div data-bbox="443 926 761 1090"> <p>NOTE:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 5¹¹ 10 TO 10 OHMS PER SQUARE. 3. TUBE MATERIAL TO BE CLEAR,RIGID PVC. 4. PRINTING MUST BE CENTERED ON LENGTH OF TUBE. 5. STOCK NUMBER : XXXXX LAST 5 DIGITS. 6. PRINT HEIGHT = 1.651 mm. REF. 7. XXXXX, XXX = 3 DIGITS OF ABBREVIATION MONTH. YY = LAST 2 DIGITS OF THE YEAR. </div> <div data-bbox="328 1048 443 1090"> <p>FILE TUBE_26020378.DWG ECN NO. 0306/12</p> </div> </div>	DESCRIPTION OF CHANGE	DATE	REV	INITIAL RELEASE	FEB 01,2012	A	PACKAGE BODY	STOCK NUMBER	TUBE COLOUR	PRINT COLOUR	DIMENSION "C"	DIMENSION "A"	2.5x2.5 mm.	26020378	CLEAR	BLUE	3.00±0.08	381.00±1.14	7.75x6.25 mm.	26020585	CLEAR	BLUE	6.75±0.08	381.00±1.14	<div data-bbox="1309 398 2303 1090"> <div data-bbox="2061 398 2303 441"> <table> <tr> <th>DESCRIPTION OF CHANGE</th><th>DATE</th><th>REV</th></tr> <tr> <td>INITIAL RELEASE</td><td>FEB 01,2012</td><td>A</td></tr> </table> </div> <div data-bbox="1335 491 2277 726">  </div> <table data-bbox="1437 805 2048 869"> <tr> <th>PACKAGE BODY</th><th>STOCK NUMBER</th><th>TUBE COLOUR</th><th>PRINT COLOUR</th><th>DIMENSION "C"</th><th>DIMENSION "A"</th></tr> <tr> <td>2.5x2.5 mm.</td><td>26020378</td><td>CLEAR</td><td>BLUE</td><td>3.00±0.08</td><td>381.00±1.14</td></tr> <tr> <td>7.75x6.25 mm.</td><td>26020585</td><td>CLEAR</td><td>BLUE</td><td>6.75±0.08</td><td>381.00±1.14</td></tr> </table> <div data-bbox="1437 912 1781 1090"> <p>NOTE:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 5¹¹ 10 TO 10 OHMS PER SQUARE. 3. TUBE MATERIAL TO BE CLEAR,RIGID PVC. 4. PRINTING MUST BE CENTERED ON LENGTH OF TUBE. 5. STOCK NUMBER : XXXXX LAST 5 DIGITS. 6. PRINT HEIGHT = 1.651 mm. REF. 7. XXXXX, XXX = 3 DIGITS OF ABBREVIATION MONTH. YY = LAST 2 DIGITS OF THE YEAR. </div> <div data-bbox="1309 1041 1437 1090"> <p>FILE TUBE_26020378.DWG ECN NO. 0306/12</p> </div> </div>	DESCRIPTION OF CHANGE	DATE	REV	INITIAL RELEASE	FEB 01,2012	A	PACKAGE BODY	STOCK NUMBER	TUBE COLOUR	PRINT COLOUR	DIMENSION "C"	DIMENSION "A"	2.5x2.5 mm.	26020378	CLEAR	BLUE	3.00±0.08	381.00±1.14	7.75x6.25 mm.	26020585	CLEAR	BLUE	6.75±0.08	381.00±1.14
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Change Summary –H4A Packing TUBE

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process is shown in four steps: 1. Two black ESD bags, one with an 'MCHP Label' and the other with 'Filament tape' applied. 2. A red arrow points to a box filled with pink packing peanuts. 3. A red arrow points to a cardboard box labeled 'STATIC SENSITIVE' with an 'MCHP Label' and '1 Filament tape' applied. 4. A second view of the box showing the 'Microchip' logo and 'STATIC SENSITIVE' text.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR packing process is shown in four steps: 1. 'Put package tube into ESD bag' showing a tube in a bag. 2. 'Fold the bag on the other side and attach with ESD tape' showing the bag folded. 3. 'MCHP Label placement' showing the label on the bag. 4. 'Packing in MCHP box logo' showing the final box with the Microchip logo and 'STATIC SENSITIVE' text.</p>

Change Summary –H4A Packing TUBE

Description	NSEB	STAR
Packing Material- Inner Box Size	<div><div>CLASS 2 DOCUMENT</div><div><div><div>SEN NO.</div><div>DESCRIPTION CHANGE</div><div>DATE</div><div>REV</div></div><div><div>A</div><div>INITIAL RELEASE</div><div></div><div></div></div><div><div>B</div><div>ADD PRINTING "DO NOT DROP"</div><div></div><div></div></div></div><div><div>D0372/16</div><div>APR 23,16</div></div><div><p>STK# 28030328 FILE: 28030328.DWG ID: TUBE BOX MODY</p></div></div>	<div><div>F [DWG] 2011 CORRECT TWO DIMENSION or SYMBOL "STATIC SENSITIVE"</div><div><p>DO NOT DROP 禁止掉落 ห้ามโยน</p><p>MICROCHIP</p></div></div>

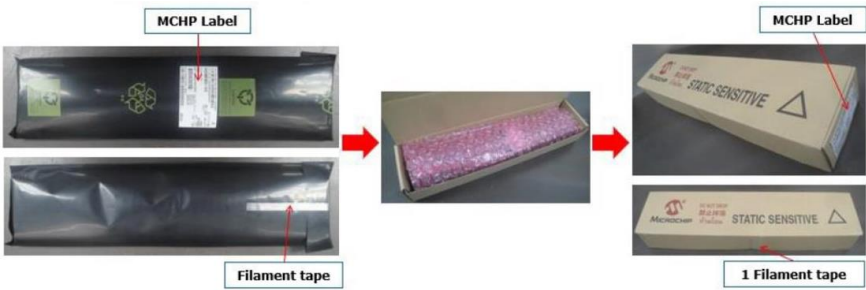
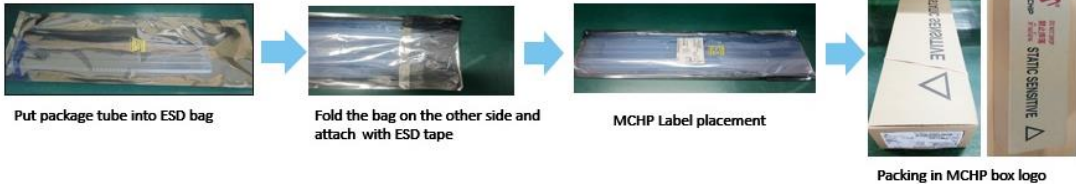
Change Summary –J5A Packing -TUBE

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	J5A	VDFN COL-4 (2.0x2.5mm)	TUBE	Pin1 Orientation	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	No
2	J5A	VDFN COL-4 (2.0x2.5mm)	TUBE	BQM	140	140	No
3	J5A	VDFN COL-4 (2.0x2.5mm)	TUBE	Tube Color	Clear	Clear	No
5	J5A	VDFN COL-4 (2.0x2.5mm)	TUBE	PLUG COLOR	Plug pin one : GREY Opposite pin one : BLUE	Plug pin one : GREY Opposite pin one : BLUE	No

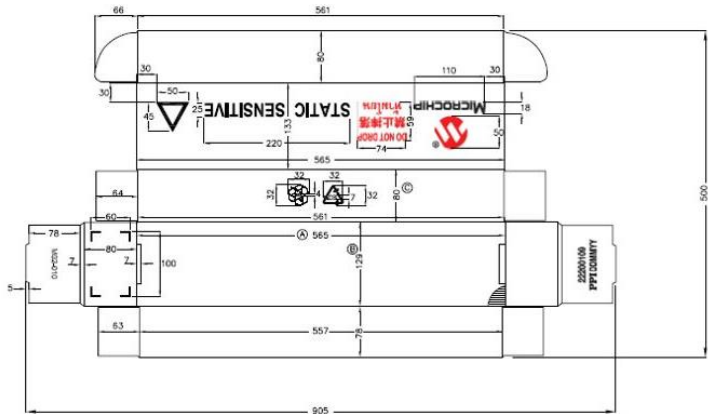
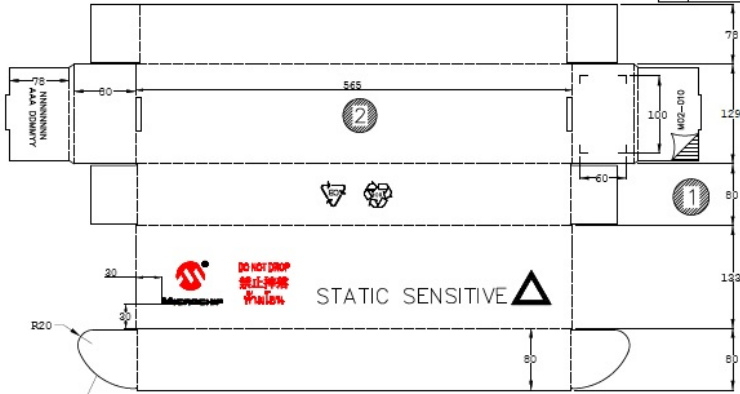
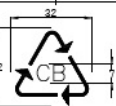
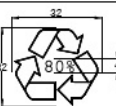


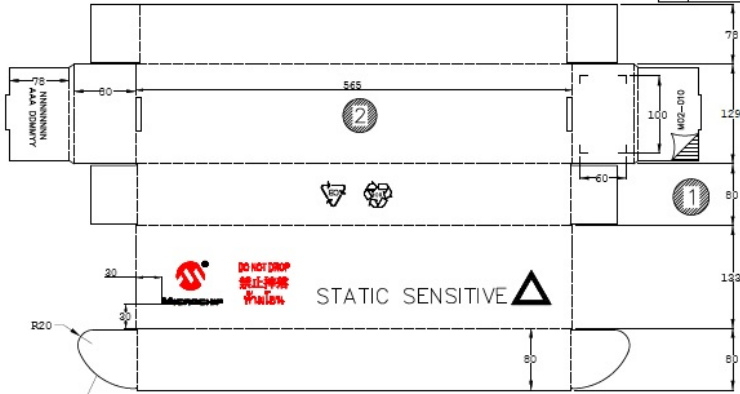
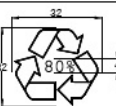
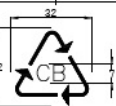


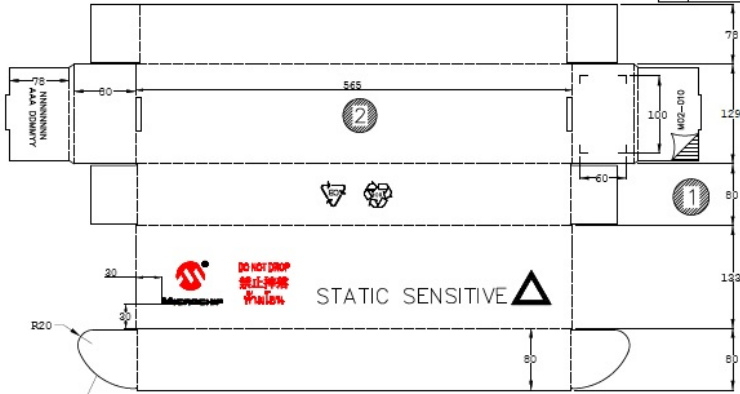
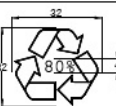
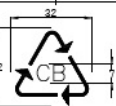


Change Summary –J5A Packing -TUBE

Description	NSEB	STAR																												
Tube Dimension	<div><div>DESCRIPTION OF CHANGE</div><table><tr><td>1.20±0.20/0.10</td><td>SEP 07,2004</td><td>A</td></tr><tr><td></td><td>JAN 30,2006</td><td>B</td></tr></table><table><tr><td>TUBE COLOUR</td><td>PRINT COLOUR</td></tr><tr><td>CLEAR</td><td>BLUE</td></tr></table><p>NOTE:</p><ol style="list-style-type: none">1. ALL DIMENSIONS ARE IN MILLIMETERS.2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^5 TO 10^{12} OHMS PER SQUARE.3. TUBE MATERIAL TO BE CLEAR, RIGID PVC.4. PRINTING : WHOLE PRINTING AND AT LEAST ONE COMPLETE PRINT5. STOCK NUMBER : XXXXX LAST 5 DIGITS.6. PRINT HEIGHT = 1.851 mm. REF.<p>0179/06</p><table><tr><td>STK# 26020454</td></tr><tr><td>FILE TUBE-212.DWG</td></tr><tr><td>U:\Engineering\parts\Tube\J5A</td></tr><tr><td>ECN NO.</td></tr></table></div>	1.20±0.20/0.10	SEP 07,2004	A		JAN 30,2006	B	TUBE COLOUR	PRINT COLOUR	CLEAR	BLUE	STK# 26020454	FILE TUBE-212.DWG	U:\Engineering\parts\Tube\J5A	ECN NO.	<div><div>DESCRIPTION OF CHANGE</div><table><tr><td>1.20±0.20/0.10</td><td>SEP 07,2004</td><td>A</td></tr><tr><td></td><td>JAN 30,2006</td><td>B</td></tr></table><table><tr><td>TUBE COLOUR</td><td>PRINT COLOUR</td></tr><tr><td>CLEAR</td><td>BLUE</td></tr></table><p>NOTE:</p><ol style="list-style-type: none">1. ALL DIMENSIONS ARE IN MILLIMETERS.2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^5 TO 10^{12} OHMS PER SQUARE.3. TUBE MATERIAL TO BE CLEAR, RIGID PVC.4. PRINTING : WHOLE PRINTING AND AT LEAST ONE COMPLETE PRINT PER TUBE.5. STOCK NUMBER : XXXXX LAST 5 DIGITS.6. PRINT HEIGHT = 1.851 mm. REF.<p>0179/06</p><table><tr><td>STK# 26020454</td></tr><tr><td>FILE TUBE-212.DWG</td></tr><tr><td>U:\Engineering\parts\Tube\J5A</td></tr><tr><td>ECN NO.</td></tr></table></div>	1.20±0.20/0.10	SEP 07,2004	A		JAN 30,2006	B	TUBE COLOUR	PRINT COLOUR	CLEAR	BLUE	STK# 26020454	FILE TUBE-212.DWG	U:\Engineering\parts\Tube\J5A	ECN NO.
1.20±0.20/0.10	SEP 07,2004	A																												
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Change Summary –J5A Packing -TUBE

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process is shown in four steps: 1. A package tube with an MCHP Label and Filament tape. 2. The package tube placed in a box filled with pink foam. 3. The box closed, showing the MCHP Label and 1 Filament tape. 4. The box closed, showing the MCHP Label and 1 Filament tape.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR packing process is shown in four steps: 1. Put package tube into ESD bag. 2. Fold the bag on the other side and attach with ESD tape. 3. MCHP Label placement. 4. Packing in MCHP box logo.</p>

Change Summary –J5A Packing -TUBE

Description	NSEB	STAR																									
Packing Material- Inner Box Size	<div><div>CLASS 2 DOCUMENT</div><div><table><tr><td>ECN NO.</td><td>DESCRIPTION</td><td>CHANGE</td><td>DATE</td><td>REV</td></tr><tr><td></td><td>INITIAL RELEASE</td><td></td><td></td><td>A</td></tr><tr><td></td><td>ADD PRINTING "DO NOT DROP"</td><td></td><td></td><td>B</td></tr></table><div>D0372/16APR 23,16</div></div><div></div><div><div>SYN# 260303398</div><div>FILE: 260303328.DWG.</div><div>ID: TUBE BOX MCH</div></div></div> <div><div><table><tr><td>F</td><td>DWG042011</td><td>Correct type dimension of symbol "STATIC SENSITIVE"</td><td>SATSAWAT S.</td></tr><tr><td colspan="2"></td><td></td></tr><tr><td colspan="2"></td><td colspan="2"></td></tr></table></div></div>	ECN NO.	DESCRIPTION	CHANGE	DATE	REV		INITIAL RELEASE			A		ADD PRINTING "DO NOT DROP"			B	F	DWG042011	Correct type dimension of symbol "STATIC SENSITIVE"	SATSAWAT S.			 				
ECN NO.	DESCRIPTION	CHANGE	DATE	REV																							
	INITIAL RELEASE			A																							
	ADD PRINTING "DO NOT DROP"			B																							
F	DWG042011	Correct type dimension of symbol "STATIC SENSITIVE"	SATSAWAT S.																								
		 																									
																											

Change Summary –H6A Packing TUBE

Item	Package codes	Package Type	Media	Description	NSEB	STAR	GAP
1	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	TUBE	Pin1 Orientation	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	Pin one of the units must be oriented towards the beginning of words on tube (eg.ANTISTATIC)	No
2	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	TUBE	BQM	72	72	No
3	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	TUBE	Tube Color	Clear	Clear	No
5	H6A	VDFN COL-4 (3.2x5.0x0.9mm)	TUBE	PLUG COLOR	Plug pin one : GREY Opposite pin one : BLUE	Plug pin one : GREY Opposite pin one : BLUE	No

Change Summary –H6A Packing TUBE

Description

NSEB

STAR

Tube Dimension

1. REFERENCE DIMENSIONS

1. REFERENCE DIMENSIONS

DIMENSION "C"	DATE	REV
DE 2.5±0.5 mm	SEP 27,2007	1
10 ROUND	DEC 19,2007	2
0	FEB 01,2012	3

1. DELETE NOTE 7, PACKAGE 2.5±0.5 mm.

XXXXX ANTISTATIC

88.90 Max.

12.70

1.27±0.08

R0.635 TYP

0.508±0.127 ALL SIDES

PACKAGE BODY	STOCK NUMBER	TUBE COLOUR	PRINT COLOUR	DIMENSION "C"	DIMENSION "A"
3x3 mm.	26020232	CLEAR	BLUE	3.810±0.08	381.00 +/-1.14
4x4,4x5 mm.	26020202	CLEAR	BLUE	4.775±0.08	381.00 +/-1.14
5x5,5x7 mm.	26020203	CLEAR	BLUE	5.715±0.08	381.00 +/-1.14
6x6 mm.	26020238	CLEAR	BLUE	6.908±0.08	381.00 +/-1.14
7x7 mm.	26020201	CLEAR	BLUE	7.899±0.08	381.00 +/-1.14
3x3 mm.	26020251	CLEAR	BLUE	3.810±0.08	501.14 +/-1.14
8x8 mm.	26020267	CLEAR	BLUE	8.890±0.08	381.00 +/-1.14
9x9 mm.	26020268	CLEAR	BLUE	9.880±0.08	381.00 +/-1.14
10x10 mm.	26020269	CLEAR	BLUE	10.922±0.08	381.00 +/-1.14

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^9 TO 10^{11} OHMS PER SQUARE.
- TUBE MATERIAL TO BE CLEAR,RIGID PVC.
- PRINTING : WHEEL PRINTING AND AT LEAST ONE COMPLETE PRINT PER
- STOCK NUMBER : XXXXX LAST 5 DIGITS.
- PRINT HEIGHT = 1.651 mm. REF.

FILE TBCC001K.DWG
C:\drawing\tube\bec\030212
ECN NO.

REVISIONS

REV.	DATE	DESCRIPTION	PROPOSED BY
G		UPDATE NOTE FOR SURFACE RESISTIVITY	
H		CHANGE MATERIAL TO RUBBER AND UPDATE DESIGN FOR PLUGGING	
J		ADD ORANGE PLUG ON SHEET 5	
K		REV/REV PLUG DIMENSION ON SHEET 4	
L		ADD RED TUBE FOR UTM SHEET 5	
M	01/05/2012	PLUG MULTIPLE TUBE UTM SHEET 5	SATSAVIAT S.

XXXXX ANTISTATIC

88.90 MAX.

12.70

1.27±0.08

R0.635 TYP

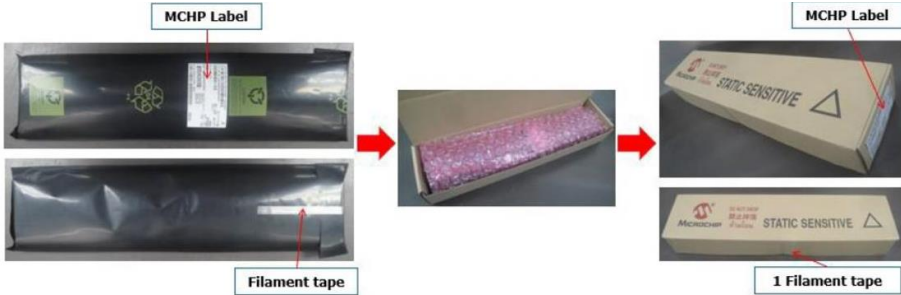
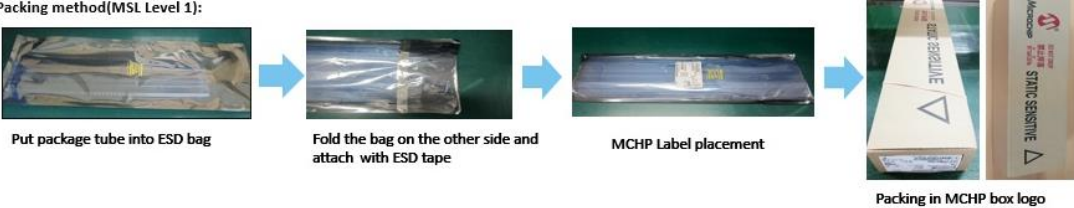
0.508±0.127 ALL SIDES

PACKAGE BODY	STOCK NUMBER	TUBE COLOUR	PRINT COLOUR	DIMENSION "C"	DIMENSION "A"
3X3 mm.	26020232	CLEAR	BLUE	3.810±0.08	381.00 +/-1.14

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY $\geq 1 \times 10^9$ TO $< 1 \times 10^{11}$ OHMS/Sq BETWEEN SURFACE RESISTANCE $\geq 1 \times 10^9$ TO $< 1 \times 10^{11}$ OHMS.
- TUBE MATERIAL TO BE CLEAR,RIGID PVC.
- PRINTING : WHEEL PRINTING AND AT LEAST ONE COMPLETE PRINT PER TUBE.
- STOCK NUMBER : XXXXX LAST 5 DIGITS.
- PRINT HEIGHT = 1.651 mm. REF.

Change Summary –H6A Packing TUBE

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process is shown in a sequence of four images connected by red arrows. 1. An ESD bag with an 'MCHP Label' and 'Filament tape' applied. 2. The bag being placed into a cardboard box filled with pink packing peanuts. 3. The box being sealed with '1 Filament tape'. 4. The final packed box with 'MCHP Label' and 'STATIC SENSITIVE' markings.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR packing process is shown in a sequence of four images connected by blue arrows. 1. 'Put package tube into ESD bag'. 2. 'Fold the bag on the other side and attach with ESD tape'. 3. 'MCHP Label placement'. 4. 'Packing in MCHP box logo', showing the final box with 'STATIC SENSITIVE' and 'MCHP' markings.</p>

Change Summary –H6A Packing TUBE

Description	NSEB	STAR
Packing Material- Inner Box Size	<p>CLASS 2 DOCUMENT</p> <p>ECON NO DESCRIPTION CHANGE DATE REV INITIAL RELEASE ADD PRINTING "DO NOT DROP" APR 23,16</p> <p>STK# 26030328 FILE 26030328.DWG DS: TUBE_BOX.MCH</p>	<p>F DWG04201 Correct type dimension of symbol SATSAWAT S.</p> <p>STK# 26030328 FILE 26030328.DWG DS: TUBE_BOX.MCH</p>