



Product Change Notification / ASER-09RAOP971

Date:

09-Sep-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_09092022.pdf](#)

[ASER-09RAOP971_Affected_CPN_09092022.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		
Final Test 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			x													

Date																		
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.

September 09, 2022: Re-issued final notification. Changed the Assembly Site to Final Test Site in the pre and post change summary table.

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.

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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)

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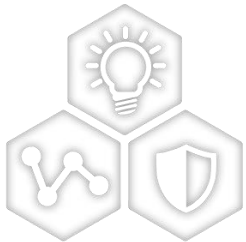
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CCB 4928
Pre and Post Change Summary
1 of 2
PCN #: ASER-09RAOP971



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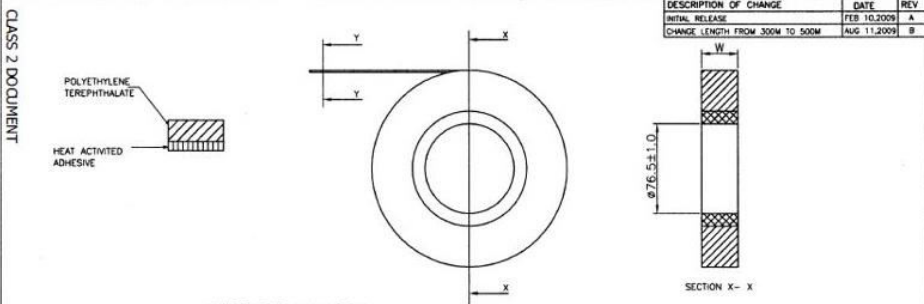
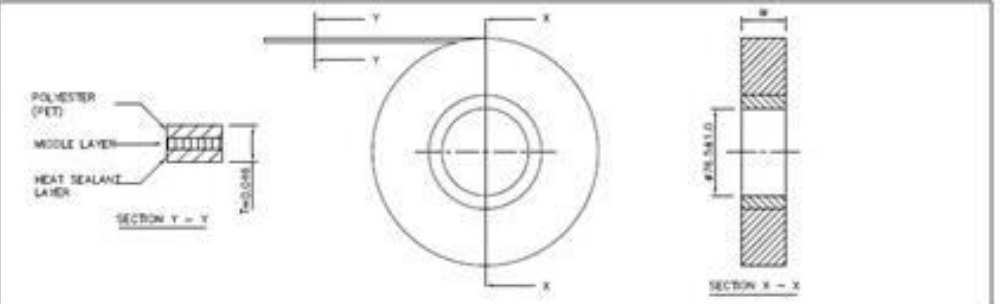


SMART | CONNECTED | SECURE


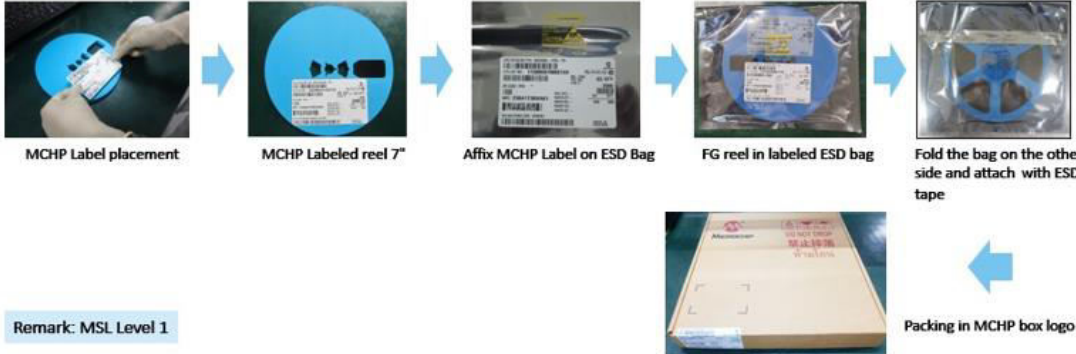
Change Summary –H4A Packing TR

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																	
Cover Tape	<p>CLASS 2 DOCUMENT</p>  <table border="1" data-bbox="1006 471 1261 506"> <thead> <tr> <th>DESCRIPTION OF CHANGE</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>INITIAL RELEASE</td> <td>FEB 10, 2009</td> <td>A</td> </tr> <tr> <td>CHANGE LENGTH FROM 300M TO 500M</td> <td>AUG 11, 2009</td> <td>B</td> </tr> </tbody> </table> <p>**WIDTH 9.2 mm ± 0.1**</p> <p>Note</p> <ol style="list-style-type: none"> 1. THICKNESS : 0.040–0.060 mm 2. STANDARD LENGTH : 500m 3. TENSILE STRENGTH : 7.75kg/mm sq 4. ELONGATION : 120–140% 11 5. SURFACE RESISTIVITY : 10 OHMS/SQ MAX. (STATIC DISSIPATIVE) 6. PEEL STRENGTH CONFORMS TO EIA SPEC: 55±25g 7. RECOMMENDED SHELF LIFE: TWO YEAR FROM MANUFACTURING DATE 8. LUMINOUS TRANSMITTANCE : 93% 9. HAZE : 27% *10 OTHER COVER TAPE WIDTH REFER TO WI 4.08-04 <p>* 0417/09</p> <table border="1" data-bbox="343 1035 445 1106"> <tr> <td>DATE</td> <td>2009/02/10</td> </tr> <tr> <td>FILE</td> <td>0417/09.DWG</td> </tr> <tr> <td>BY</td> <td>0417/09/10</td> </tr> <tr> <td>BCN</td> <td></td> </tr> </table> <p>NOTE : – ALL DIMENSIONS ARE IN mm.</p>	DESCRIPTION OF CHANGE	DATE	REV	INITIAL RELEASE	FEB 10, 2009	A	CHANGE LENGTH FROM 300M TO 500M	AUG 11, 2009	B	DATE	2009/02/10	FILE	0417/09.DWG	BY	0417/09/10	BCN		
DESCRIPTION OF CHANGE	DATE	REV																	
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CHANGE LENGTH FROM 300M TO 500M	AUG 11, 2009	B																	
DATE	2009/02/10																		
FILE	0417/09.DWG																		
BY	0417/09/10																		
BCN																			

Change Summary –H4A Packing TR

Description	NSEB	STAR
<p>Packing Material/Method</p>	 <p>The NSEB process flowchart shows the following steps: 1. A blue reel with an ESD logo and an MCHP Label. 2. The reel is placed in a silver ESD bag with an MCHP Label. 3. Filament tape is applied to the bag. 4. The bag is placed in a cardboard box with an MCHP Label.</p>	 <p>The STAR process flowchart shows the following steps: 1. MCHP Label placement on a blue reel. 2. The resulting MCHP Labeled reel 7". 3. The reel is placed in an ESD bag and an MCHP Label is affixed. 4. The reel is placed in a labeled ESD bag. 5. The bag is folded and attached with ESD tape. 6. The bag is placed in a cardboard box with an MCHP box logo. A remark indicates MSL Level 1.</p>

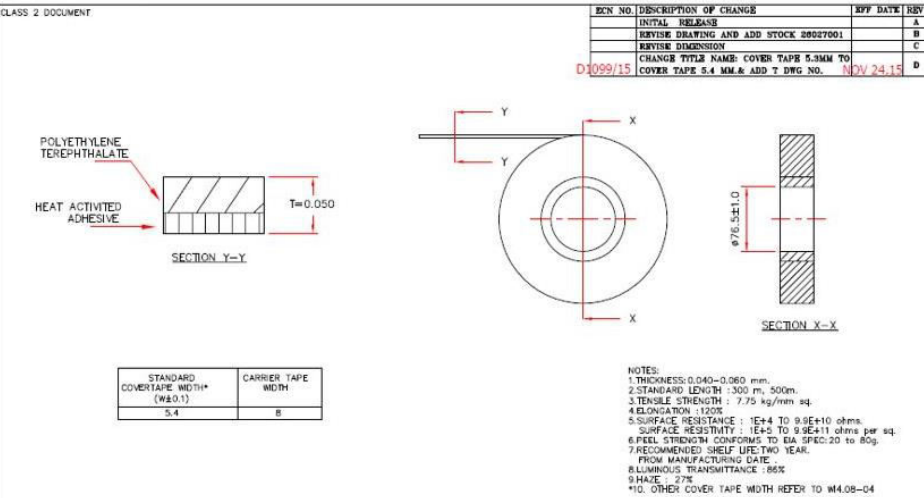
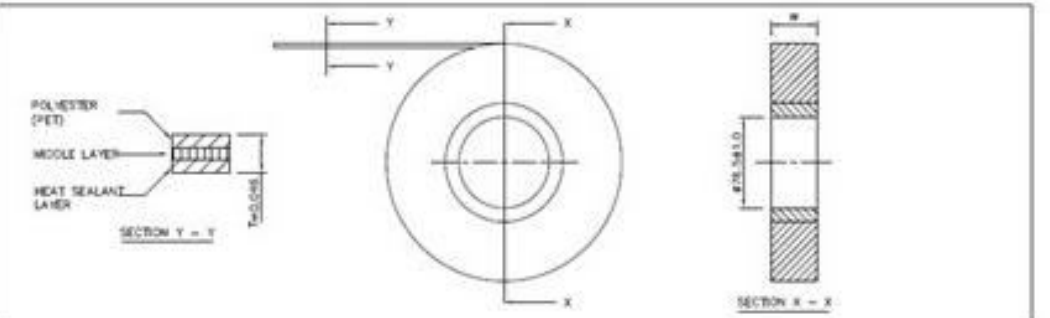
Change Summary –J5A Packing TR

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																																							
Carrier Tape	<div data-bbox="993 435 1261 521" style="float: right; border: 1px solid black; padding: 2px;"> <table border="1"> <tr><td>DESCRIPTION CHANGE</td><td>DATE</td><td>REV</td></tr> <tr><td>INITIAL RELEASE</td><td>APR 21.09</td><td>A</td></tr> <tr><td>REVISED DIMENSION AND CHANGE STOCK NO.SAMCA021</td><td>MAY 25.09</td><td>B</td></tr> <tr><td>REVISED TOLERANCE</td><td>DEC 08.09</td><td>C</td></tr> <tr><td>REVISED TOLERANCE W</td><td>JAN 22.13</td><td>D</td></tr> </table> </div> <div data-bbox="343 435 1261 806" style="text-align: center;"> </div> <div data-bbox="394 821 624 935" style="margin-top: 10px;"> <table border="1"> <tr><td>Ao</td><td>2.25 +/- 0.05</td></tr> <tr><td>Bø</td><td>2.80 +/- 0.05</td></tr> <tr><td>Kø</td><td>1.10 +/- 0.1</td></tr> <tr><td>F</td><td>3.50 +/- 0.05</td></tr> <tr><td>P1</td><td>4.00 +/- 0.1</td></tr> <tr><td>W</td><td>8.00 +0.3/-0.1</td></tr> </table> </div> <div data-bbox="879 849 1261 978" style="margin-top: 10px;"> <p>(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.</p> </div> <div data-bbox="343 1049 624 1113" style="margin-top: 10px;"> <p>CLASS 2 DOCUMENT</p> <p>STK# SAMCA021,26028010 FILE: 26028010.DWG D:\drawing2d\carrier.DWG ECN NO. 0094 / 13</p> </div>	DESCRIPTION CHANGE	DATE	REV	INITIAL RELEASE	APR 21.09	A	REVISED DIMENSION AND CHANGE STOCK NO.SAMCA021	MAY 25.09	B	REVISED TOLERANCE	DEC 08.09	C	REVISED TOLERANCE W	JAN 22.13	D	Ao	2.25 +/- 0.05	Bø	2.80 +/- 0.05	Kø	1.10 +/- 0.1	F	3.50 +/- 0.05	P1	4.00 +/- 0.1	W	8.00 +0.3/-0.1	<div data-bbox="1312 549 1847 778" style="text-align: center;"> </div> <div data-bbox="1312 806 1490 892" style="margin-top: 10px;"> <table border="1"> <tr><td>Ao</td><td>2.25 +/- 0.05</td></tr> <tr><td>Bø</td><td>2.80 +/- 0.05</td></tr> <tr><td>Kø</td><td>1.10 +/- 0.1</td></tr> <tr><td>F</td><td>3.50 +/- 0.05</td></tr> <tr><td>P1</td><td>4.00 +/- 0.1</td></tr> <tr><td>W</td><td>8.00 +0.3/-0.1</td></tr> </table> </div> <div data-bbox="1872 549 2369 821" style="margin-top: 10px;"> </div> <div data-bbox="2280 828 2369 892" style="text-align: right; margin-top: 10px;"> </div>	Ao	2.25 +/- 0.05	Bø	2.80 +/- 0.05	Kø	1.10 +/- 0.1	F	3.50 +/- 0.05	P1	4.00 +/- 0.1	W	8.00 +0.3/-0.1
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Cover Tape	<p>CLASS 2 DOCUMENT</p> <table border="1" data-bbox="930 471 1261 549"> <thead> <tr> <th>ECN NO.</th> <th>DESCRIPTION OF CHANGE</th> <th>EFF 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>  <p>SECTION Y-Y</p> <p>SECTION X-X</p> <table border="1" data-bbox="458 835 662 892"> <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>B</td> </tr> </tbody> </table> <p>NOTES:</p> <ol style="list-style-type: none"> THICKNESS: 0.040-0.060 mm. STANDARD LENGTH: 300 m, 500m. TENSILE STRENGTH: 7.75 kg/mm sq. ELONGATION: 120% SURFACE RESISTANCE: $1E+4$ TO $9.9E+10$ ohms SURFACE RESISTIVITY: $1E+5$ TO $9.9E+11$ ohms per sq. FELL STRENGTH CONFORMS TO DA SPEC: 20 to 80g. RECOMMENDED SHELF LIFE: TWO YEAR FROM MANUFACTURING DATE ILLUMINOUS TRANSMITTANCE: .65% HAZE: .27% OTHER COVER TAPE WIDTH REFER TO M44.08-04 <p>NOTE: ALL DIMENSION ARE IN mm.</p>	ECN NO.	DESCRIPTION OF CHANGE	EFF 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	B	 <p>SECTION Y-Y</p> <p>SECTION X-X</p>
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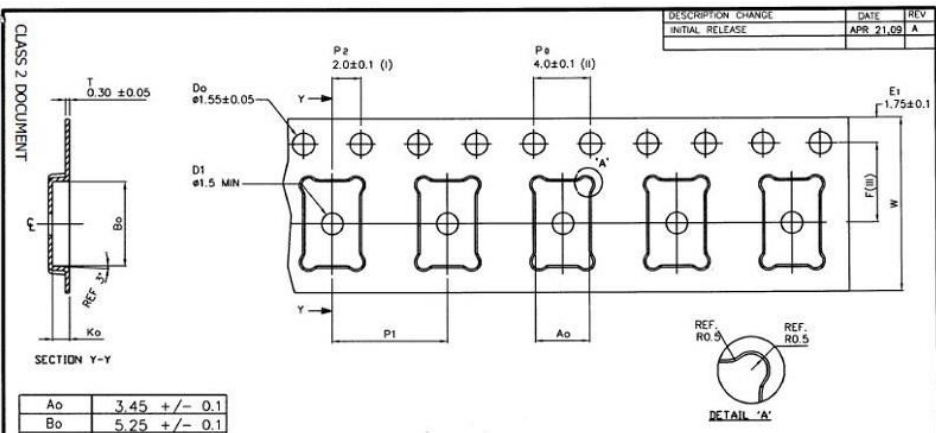
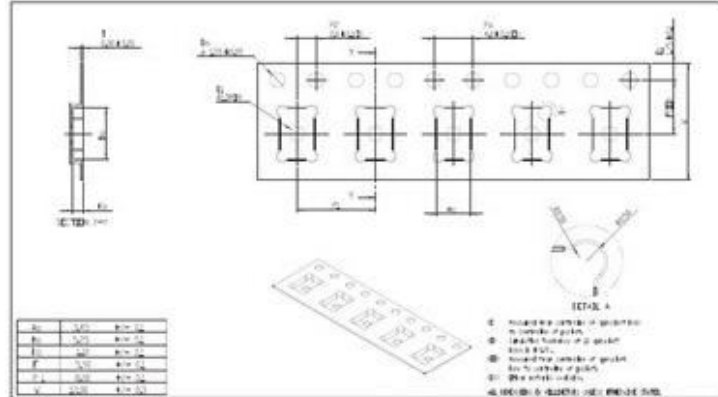
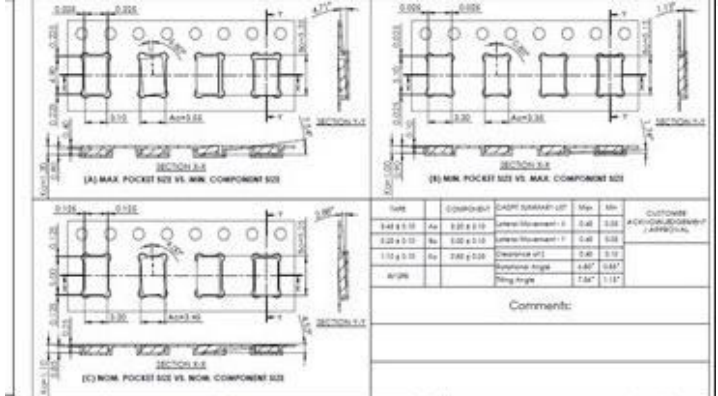
Change Summary –J5A Packing TR

Description	NSEB	STAR
<p>Packing Material/Method</p>	 <p>The NSEB process flowchart shows the following steps: 1. A blue reel with an ESD logo and an MCHP label. 2. The reel is placed in a silver ESD bag with an MCHP label. 3. The bag is sealed with filament tape. 4. The sealed bag is placed in a cardboard box with bubble wrap cushioning. 5. The box is sealed with an MCHP label.</p>	 <p>The STAR process flowchart shows the following steps: 1. MCHP Label placement on a blue reel. 2. The MCHP labeled reel is placed in a 7-inch reel. 3. The MCHP label is affixed to the ESD bag. 4. The reel is placed in the labeled ESD bag. 5. The bag is folded and attached with ESD tape. 6. The bag is placed in a cardboard box with an MCHP label. 7. The box is sealed with an MCHP label.</p> <p>Remark: MSL Level 1</p>

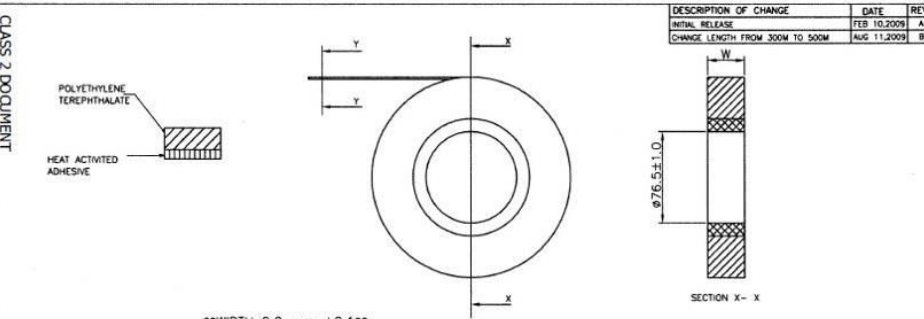
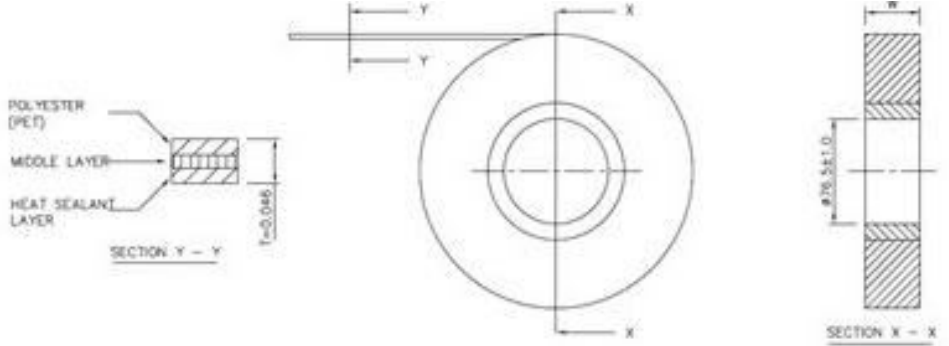
Change Summary –H6A Packing TR

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

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Carrier Tape	<div style="text-align: right;"> <table border="1"> <tr> <th>DESCRIPTION CHANGE</th> <th>DATE</th> <th>REV</th> </tr> <tr> <td>INITIAL RELEASE</td> <td>APR 21,09</td> <td>A</td> </tr> </table> </div>  <table border="1" data-bbox="343 813 560 928"> <tr> <td>Ao</td> <td>3.45 +/- 0.1</td> </tr> <tr> <td>Bo</td> <td>5.25 +/- 0.1</td> </tr> <tr> <td>Ko</td> <td>1.10 +/- 0.1</td> </tr> <tr> <td>F</td> <td>5.50 +/- 0.1</td> </tr> <tr> <td>P1</td> <td>8.00 +/- 0.1</td> </tr> <tr> <td>W</td> <td>12.00 +/- 0.3</td> </tr> </table> <p data-bbox="573 899 828 992"> (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. </p> <p data-bbox="573 992 891 1013">ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p> <p data-bbox="343 1021 471 1049">0167/09</p> <table border="1" data-bbox="331 1049 471 1120"> <tr> <td>STK#</td> <td>SAMC011,26028012</td> </tr> <tr> <td>FILE:</td> <td>26028012.DWG</td> </tr> <tr> <td>D:\KATTANAM\DWG</td> <td></td> </tr> <tr> <td>ECN NO.</td> <td></td> </tr> </table> <p data-bbox="815 1071 904 1120">2 OF 2 PROJECTOR JALIS MINDRE</p>	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	STK#	SAMC011,26028012	FILE:	26028012.DWG	D:\KATTANAM\DWG		ECN NO.		 <table border="1" data-bbox="1465 692 1630 771"> <tr> <td>Do</td> <td>3.00</td> <td>8.00</td> <td>3.00</td> </tr> <tr> <td>Di</td> <td>3.00</td> <td>8.00</td> <td>3.00</td> </tr> <tr> <td>F</td> <td>5.50</td> <td>8.00</td> <td>3.00</td> </tr> <tr> <td>P</td> <td>3.00</td> <td>8.00</td> <td>3.00</td> </tr> <tr> <td>W</td> <td>3.00</td> <td>8.00</td> <td>3.00</td> </tr> </table> <p data-bbox="1936 685 2114 771"> (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. </p> <p data-bbox="1936 771 2114 792">ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.</p>  <table border="1" data-bbox="1821 971 2178 1063"> <thead> <tr> <th>Part</th> <th>Component</th> <th>Part Dimension</th> <th>Max</th> <th>Min</th> <th>CUSTOMER APPROVAL</th> </tr> </thead> <tbody> <tr> <td>3.45 ± 0.1</td> <td>As</td> <td>2.25 ± 0.10</td> <td>0.45</td> <td>0.00</td> <td></td> </tr> <tr> <td>5.25 ± 0.1</td> <td>Bo</td> <td>5.00 ± 0.10</td> <td>0.45</td> <td>0.00</td> <td></td> </tr> <tr> <td>1.10 ± 0.1</td> <td>Ko</td> <td>7.88 ± 0.05</td> <td>0.45</td> <td>0.10</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Dimension H1</td> <td>1.87</td> <td>0.87</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Dimension Angle</td> <td>1.87</td> <td>0.87</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Dimension</td> <td>7.88</td> <td>1.17</td> <td></td> </tr> </tbody> </table> <p data-bbox="1949 1071 2038 1092">Comments:</p>	Do	3.00	8.00	3.00	Di	3.00	8.00	3.00	F	5.50	8.00	3.00	P	3.00	8.00	3.00	W	3.00	8.00	3.00	Part	Component	Part Dimension	Max	Min	CUSTOMER APPROVAL	3.45 ± 0.1	As	2.25 ± 0.10	0.45	0.00		5.25 ± 0.1	Bo	5.00 ± 0.10	0.45	0.00		1.10 ± 0.1	Ko	7.88 ± 0.05	0.45	0.10				Dimension H1	1.87	0.87				Dimension Angle	1.87	0.87				Dimension	7.88	1.17	
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Change Summary –H6A Packing TR

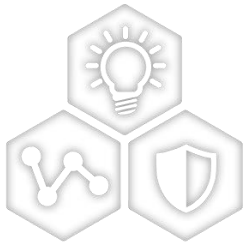
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**Please open attachment
PCN_ASER-09RAOP971_Pre and Post Change
Summary 2 of 2 for continued comparisons.**

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

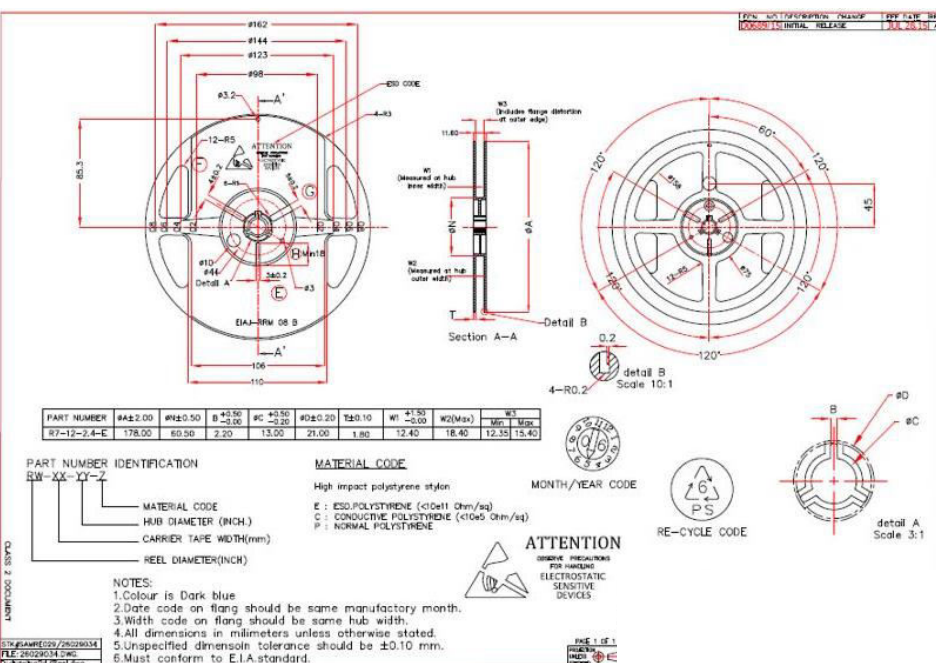
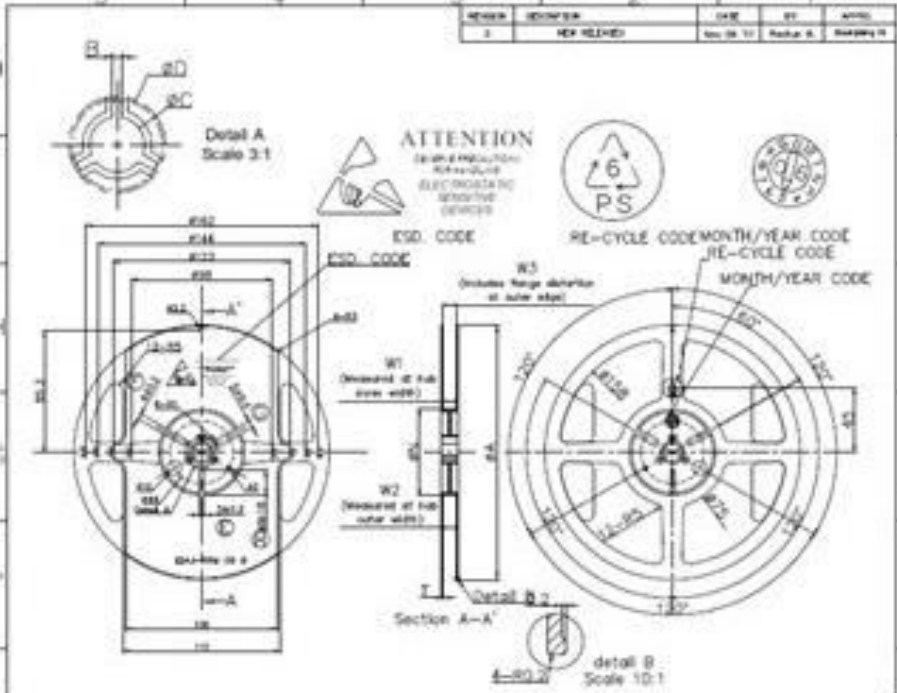


A Leading Provider of Smart, Connected and Secure Embedded Control Solutions





SMART | CONNECTED | SECURE

Change Summary –H6A Packing TR

Description	NSEB	STAR																																								
Plastic Reel	 <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p> <p> ESD CODE RE-CYCLE CODE MONTH/YEAR CODE RE-CYCLE CODE MONTH/YEAR CODE </p> <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p> <p> RE-CYCLE CODE </p> <p> 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 EIA standard. </p> <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>#A±0.00</th> <th>#W±0.50</th> <th>#B±0.00</th> <th>#C±0.50</th> <th>#D±0.20</th> <th>T±0.10</th> <th>W1±0.50</th> <th>W2(Max)</th> <th>W3</th> </tr> </thead> <tbody> <tr> <td>87-12-24-E</td> <td>178.00</td> <td>60.50</td> <td>2.20</td> <td>15.00</td> <td>21.00</td> <td>1.80</td> <td>12.40</td> <td>18.40</td> <td>12.35 15.40</td> </tr> </tbody> </table> <p> PART NUMBER IDENTIFICATION SW-XX-YY-Z MATERIAL CODE HUB DIAMETER (INCH) CARRIER TAPE WIDTH (mm) REEL DIAMETER (INCH) </p> <p> MATERIAL CODE High impact polystyrene stylen E : ESD POLYSTYRENE (<10e11 Ohm/sq) C : CONDUCTIVE POLYSTYRENE (<10e5 Ohm/sq) P : NORMAL POLYSTYRENE </p> <p> MONTH/YEAR CODE </p> <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p>	PART NUMBER	#A±0.00	#W±0.50	#B±0.00	#C±0.50	#D±0.20	T±0.10	W1±0.50	W2(Max)	W3	87-12-24-E	178.00	60.50	2.20	15.00	21.00	1.80	12.40	18.40	12.35 15.40	 <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p> <p> ESD CODE RE-CYCLE CODE MONTH/YEAR CODE RE-CYCLE CODE MONTH/YEAR CODE </p> <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p> <p> RE-CYCLE CODE </p> <p> 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 EIA standard. </p> <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>#A±0.00</th> <th>#W±0.50</th> <th>#B±0.00</th> <th>#C±0.50</th> <th>#D±0.20</th> <th>T±0.10</th> <th>W1±0.50</th> <th>W2(Max)</th> <th>W3</th> </tr> </thead> <tbody> <tr> <td>87-12-24-E</td> <td>178.00</td> <td>60.50</td> <td>2.20</td> <td>15.00</td> <td>21.00</td> <td>1.80</td> <td>12.40</td> <td>18.40</td> <td>12.35 15.40</td> </tr> </tbody> </table> <p> PART NUMBER IDENTIFICATION SW-XX-YY-Z MATERIAL CODE HUB DIAMETER (INCH) CARRIER TAPE WIDTH (mm) REEL DIAMETER (INCH) </p> <p> MATERIAL CODE High impact polystyrene stylen E : ESD POLYSTYRENE (<10e11 Ohm/sq) C : CONDUCTIVE POLYSTYRENE (<10e5 Ohm/sq) P : NORMAL POLYSTYRENE </p> <p> MONTH/YEAR CODE </p> <p> ATTENTION HANDLE PRECISION REELS AND ELECTROSTATIC SENSITIVE DEVICES </p>	PART NUMBER	#A±0.00	#W±0.50	#B±0.00	#C±0.50	#D±0.20	T±0.10	W1±0.50	W2(Max)	W3	87-12-24-E	178.00	60.50	2.20	15.00	21.00	1.80	12.40	18.40	12.35 15.40
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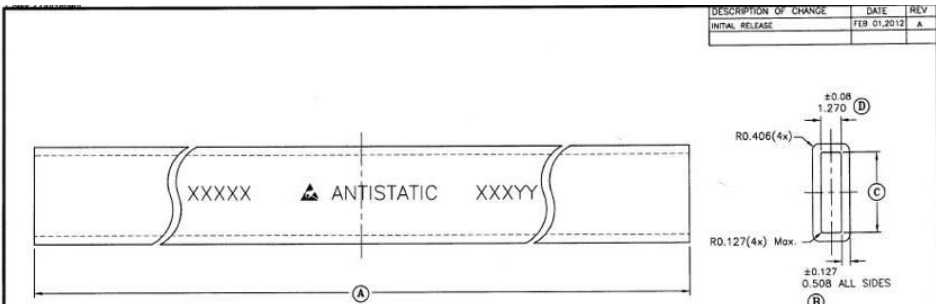
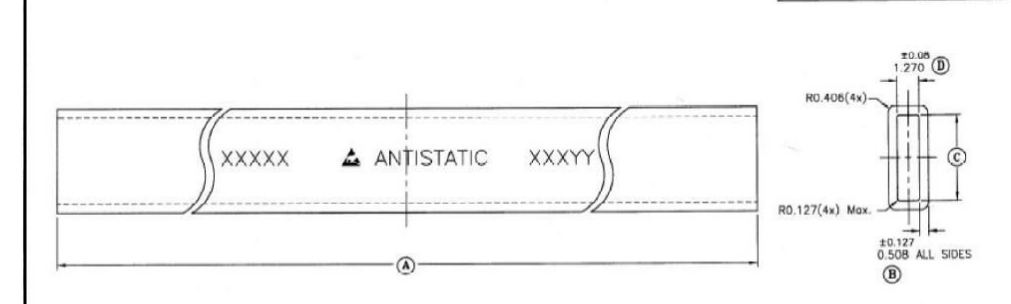
Change Summary –H6A Packing TR

Description	NSEB	STAR
<p>Packing Material/Method</p>	 <p>The NSEB packing process is shown in five steps: 1. A blue reel with an 'ESD logo' and 'MCHP Label'. 2. The reel is placed in a bag with an 'MCHP Label'. 3. 'Filament tape' is used to seal the bag. 4. The bagged reel is placed in a cardboard box with bubble wrap. 5. The box is sealed with an 'MCHP Label'.</p>	 <p>The STAR packing process is shown in five steps: 1. 'MCHP Labeled reel 13"'. 2. 'Affix MCHP Label on ESD Bag' (labeled 'Supershield'). 3. 'FG reel in labeled ESD bag'. 4. 'Fold the bag on the other side and attach with ESD tape'. 5. 'Packing in MCHP box logo' (labeled 'Microchip').</p> <p>Remark: MSL Level 1</p>


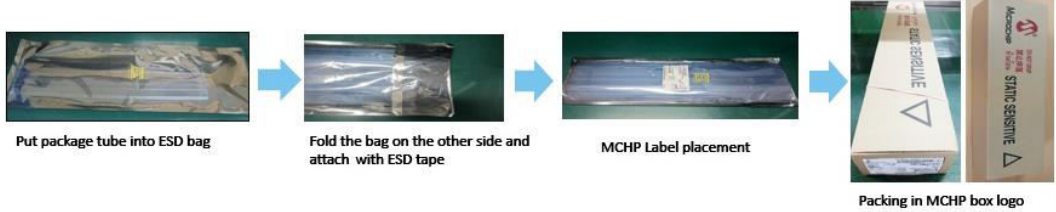
Change Summary –H4A Packing TUBE

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 style="text-align: right;"> <table border="1"> <thead> <tr> <th>DESCRIPTION OF CHANGE</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>INITIAL RELEASE</td> <td>FEB 01,2012</td> <td>A</td> </tr> </tbody> </table> </div>  <table border="1" data-bbox="445 828 1019 892"> <thead> <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> </thead> <tbody> <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> </tbody> </table> <p data-bbox="445 928 764 1092"> NOTE: 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 5 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. XXXY, XXX = 3 DIGITS OF ABBREVIATION MONTH. YY = LAST 2 DIGITS OF THE YEAR. </p> <p data-bbox="331 1049 509 1092"> FILE TUBE_26020378.DWG ECN NO. 0306/12 </p>	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 style="text-align: right;"> <table border="1"> <thead> <tr> <th>DESCRIPTION OF CHANGE</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>INITIAL RELEASE</td> <td>FEB 01,2012</td> <td>A</td> </tr> </tbody> </table> </div>  <table border="1" data-bbox="1439 806 2051 878"> <thead> <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> </thead> <tbody> <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> </tbody> </table> <p data-bbox="1439 913 1783 1092"> NOTE: 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 5 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. XXXY, XXX = 3 DIGITS OF ABBREVIATION MONTH. YY = LAST 2 DIGITS OF THE YEAR. </p> <p data-bbox="1312 1042 1528 1092"> FILE TUBE_26020378.DWG ECN NO. 0306/12 </p>	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 process is shown in four stages: 1. A black ESD bag with an MCHP Label and Filament tape. 2. The bag is placed inside a pink foam tube. 3. The tube is placed inside a cardboard box labeled 'STATIC SENSITIVE' with an MCHP Label and 1 Filament tape. 4. The final packed box.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR process is shown in four stages: 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>


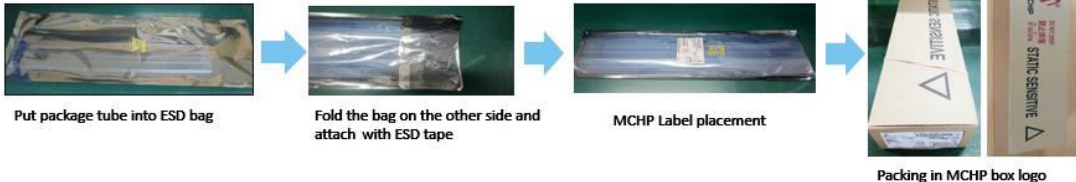
Change Summary –J5A Packing -TUBE

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		

Change Summary –J5A Packing -TUBE

Description	NSEB	STAR
<p>Packing Material/Method</p>	 <p>The NSEB process involves placing an MCHP Label and Filament tape on a tube, placing the tube in a box with pink foam, and sealing the box with an MCHP Label and 1 Filament tape.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR process involves putting the package tube into an ESD bag, folding the bag on the other side and attaching it with ESD tape, placing the MCHP Label, and packing it in the MCHP box logo.</p>


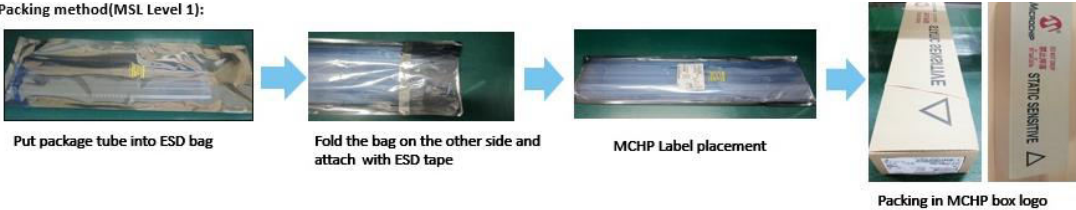
Change Summary –H6A Packing TUBE

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

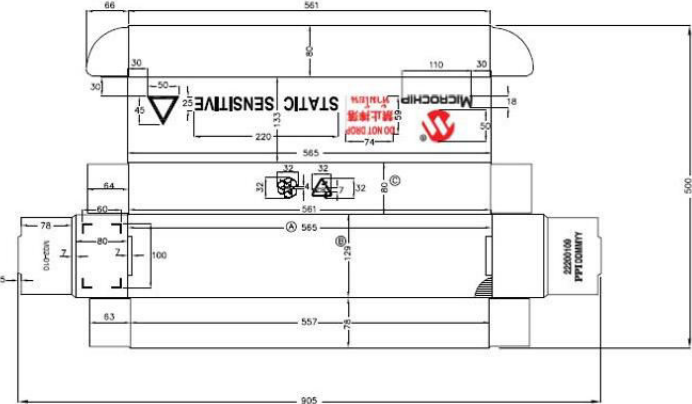
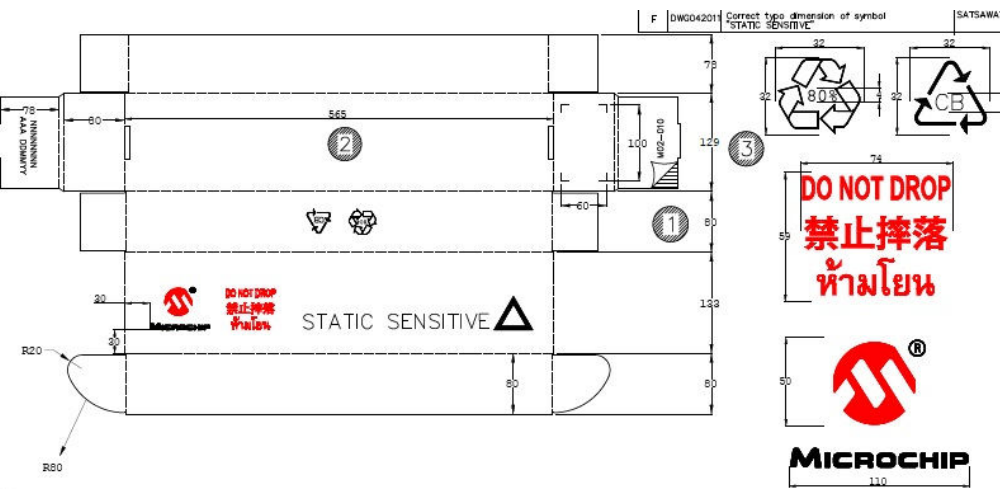
Change Summary –H6A Packing TUBE

Description	NSEB	STAR																																																																																																								
Tube Dimension	<div data-bbox="343 449 1261 749"> </div> <div data-bbox="445 763 904 906"> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>3x3 mm.</td> <td>26020232</td> <td>CLEAR</td> <td>BLUE</td> <td>3.81±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>4x4,4x5 mm.</td> <td>26020202</td> <td>CLEAR</td> <td>BLUE</td> <td>4.775±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>5x5,5x7 mm.</td> <td>26020203</td> <td>CLEAR</td> <td>BLUE</td> <td>5.715±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>6x6 mm.</td> <td>26020238</td> <td>CLEAR</td> <td>BLUE</td> <td>6.908±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>7x7 mm.</td> <td>26020201</td> <td>CLEAR</td> <td>BLUE</td> <td>7.899±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>3x3 mm.</td> <td>26020251</td> <td>CLEAR</td> <td>BLUE</td> <td>3.810±0.08</td> <td>501.14 +/-1.14</td> </tr> <tr> <td>8x8 mm.</td> <td>26020287</td> <td>CLEAR</td> <td>BLUE</td> <td>8.890±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>9x9 mm.</td> <td>26020268</td> <td>CLEAR</td> <td>BLUE</td> <td>9.880±0.08</td> <td>381.00 +/-1.14</td> </tr> <tr> <td>10x10 mm.</td> <td>26020269</td> <td>CLEAR</td> <td>BLUE</td> <td>10.922±0.08</td> <td>381.00 +/-1.14</td> </tr> </tbody> </table> </div> <div data-bbox="445 921 828 1063"> <p>NOTE:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETERS. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^8 TO 10^{10} 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 = 1.851 mm. REF. </div> <div data-bbox="343 1049 573 1092"> <p>FILE TBCC001K.DWG L:\drawing\tube\bcc\ ECN NO. 0302/12</p> </div>	PACKAGE BODY	STOCK NUMBER	TUBE COLOUR	PRINT COLOUR	DIMENSION "C"	DIMENSION "A"	3x3 mm.	26020232	CLEAR	BLUE	3.81±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.	26020287	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	<div data-bbox="1312 406 2356 521"> <table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>PROPOSED BY</th> </tr> </thead> <tbody> <tr> <td>G</td> <td></td> <td>UPDATE NOTE FOR SURFACE RESISTIVITY</td> <td></td> </tr> <tr> <td>H</td> <td></td> <td>CHANGE MATERIAL TO RIGID AND CLEAR PVC FOR PLUG IN</td> <td></td> </tr> <tr> <td>J</td> <td></td> <td>ADD ORANGE PLUG ON SHEET 2</td> <td></td> </tr> <tr> <td>K</td> <td></td> <td>REVISE RING DIMENSION ON SHEET 4.</td> <td></td> </tr> <tr> <td>L</td> <td></td> <td>ADD RED TUBE FOR LITHA SHEET 2</td> <td></td> </tr> <tr> <td>M</td> <td></td> <td>CHANGED TO NEW MATEL PVC TUBE ON SHEET 2</td> <td>DATAHAT 5</td> </tr> </tbody> </table> </div> <div data-bbox="1337 549 2356 792"> </div> <div data-bbox="1554 863 2051 906"> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>3x3 mm.</td> <td>26020232</td> <td>CLEAR</td> <td>BLUE</td> <td>3.810±0.08</td> <td>381.00 +/-1.14</td> </tr> </tbody> </table> </div> <div data-bbox="1312 1006 1783 1149"> <p>NOTE:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETERS. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY $\geq 1 \times 10^8$ TO $< 1 \times 10^{12}$ OHMS/Sq BETWEEN SURFACE RESISTANCE $\geq 1 \times 10^8$ 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 = 1.851 mm. REF. </div>	REVISIONS				REV.	DATE	DESCRIPTION	PROPOSED BY	G		UPDATE NOTE FOR SURFACE RESISTIVITY		H		CHANGE MATERIAL TO RIGID AND CLEAR PVC FOR PLUG IN		J		ADD ORANGE PLUG ON SHEET 2		K		REVISE RING DIMENSION ON SHEET 4.		L		ADD RED TUBE FOR LITHA SHEET 2		M		CHANGED TO NEW MATEL PVC TUBE ON SHEET 2	DATAHAT 5	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
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Change Summary –H6A Packing TUBE

Description	NSEB	STAR
Packing Material/Method	 <p>The NSEB packing process is shown in four stages: 1. Two black anti-static bags, one with an 'MCHP Label' and the other with 'Filament tape' applied. 2. A pink anti-static foam insert placed inside a cardboard box. 3. The anti-static bags placed inside the box, with an 'MCHP Label' on top. 4. The final packed box with '1 Filament tape' applied to the bottom.</p>	<p>Packing method(MSL Level 1):</p>  <p>The STAR packing process is shown in four stages: 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' branding.</p>

Change Summary –H6A Packing TUBE

Description	NSEB	STAR															
Packing Material- Inner Box Size	<p>CLASS 2 DOCUMENT</p> <table border="1" data-bbox="1014 462 1268 511"> <thead> <tr> <th>ECH NO</th> <th>DESCRIPTION</th> <th>CHANGE</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td></td> <td>INITIAL</td> <td>RELEASE</td> <td></td> <td>A</td> </tr> <tr> <td>D0372/16</td> <td>ADD</td> <td>PRINTING "DO NOT DROP"</td> <td>APR 23, 16</td> <td>B</td> </tr> </tbody> </table>  <p> <small> STK# 26030328 FILE 26030328.DWG D: TUBE BOX MCH </small> </p>	ECH NO	DESCRIPTION	CHANGE	DATE	REV		INITIAL	RELEASE		A	D0372/16	ADD	PRINTING "DO NOT DROP"	APR 23, 16	B	<p>F DWG04201 Correct type dimension of symbol "STATIC SENSITIVE" SATSAWAT S.</p> 
ECH NO	DESCRIPTION	CHANGE	DATE	REV													
	INITIAL	RELEASE		A													
D0372/16	ADD	PRINTING "DO NOT DROP"	APR 23, 16	B													



QUALIFICATION REPORT SUMMARY

PCN #: ASER-09RAOP971

Date
August 12, 2022

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.

Purpose: 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.

CCB No.: 4928

Test / Evaluation	Test Conditions / Parameters	Results
Original Final Test Site Correlation	<ul style="list-style-type: none"> Run 3,000 devices post-fused QA test comparing with the post-fused QA retest at another site and keep the good devices and rejects in separate bins. 	PASSED
Original Final Test Site Characterization	<ul style="list-style-type: none"> Characterize 33 good devices at the original test site with DC items and measurable functional test items which are specified in the product datasheet (supply current, Vol, Voh and Ishutdown) and send these devices to the destination final test site. 	PASSED
Destination Final Test Site Characterization	<ul style="list-style-type: none"> Re-characterize the same 33 good devices at the destination test site using the destination site hardware/programs for the same DC and measurable functional test items. The results will be accepted if the variance within $\pm 10\%$ of the measured values from the original test site. 	PASSED
Destination Final Test Site Correlation	<ul style="list-style-type: none"> Send 3,000 tested parts to the destination test site. The results need 100% correlation to continue the release flow. 	PASSED
Destination Final Test Site Cross Correlation	<ul style="list-style-type: none"> Run 33 untested devices from the destination test site with same FT program; keep the good devices and rejects separate by bins and send all devices to the original test site for correlation. Re-test those 33 devices from destination test site bin- by-bin to the same FT program for correlation. The yield difference should be within 0.1% and bin-to-bin difference should be within 0.1% 	PASSED