



Product Change Notification / ASER-09RAOP971

Date:

19-Nov-2021

Product Category:

Clock and Timing - Oscillators

PCN Type:

Manufacturing Change

Notification Subject:

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

Affected CPNs:

[ASER-09RAOP971_Affected_CPN_11192021.pdf](#)

[ASER-09RAOP971_Affected_CPN_11192021.csv](#)

Notification Text:

PCN Status:Initial 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 device family 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	UTAC Thai	Stars Microelectronics

		Limited (NSEB)	Limited (NSEB)	(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 Qualification Completion Date:February 2022

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

	November 2021					>	February 2022				
Workweek	4 5	4 6	4 7	4 8	4 9		6	7	8	9	1 0

Initial PCN Issue Date			x								
Qual Report Availability							x				
Final PCN Issue Date							x				

Method to Identify Change:Traceability code

Qualification Plan:Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:November 18, 2021: Issued initial notification.

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

Attachments:

[PCN_ASER-09RAOP971_Qual Plan.pdf](#)

[PCN_ASER-09RAOP971_Pre and Post Change Summary 1 of 2.pdf](#)

[PCN_ASER-09RAOP971_Pre and Post Change Summary 2 of 2.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.

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



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

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



SMART | CONNECTED | SECURE

Change Summary –H6A Packing TR

Description

Plastic Reel

NSEB

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FIG. 2002003

Change Summary –H6A Packing TR

Description	NSEB	STAR
Packing Material/Method	 ESD logo MCHP Label MCHP Label Filament tape MCHP Label	 MCHP Labeled reel 13" Affix MCHP Label on ESD Bag FG reel in labeled ESD bag Fold the bag on the other side and attach with ESD tape Packing in MCHP box logo Remark: MSL Level 1

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

DESCRIPTION OF CHANGE

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

NOTE:

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.

FILE TUBE_26020378.DWG
ECN NO. 0306/12

DESCRIPTION OF CHANGE

DESCRIPTION OF CHANGE	DATE	REV
INITIAL RELEASE	FEB 01,2012	A

PACKAGE BODY STOCK NUMBER TUBE COLOUR PRINT COLOUR DIMENSION "C" DIMENSION "A"

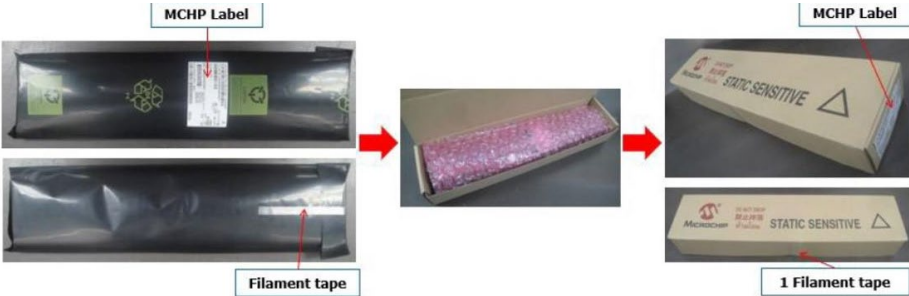
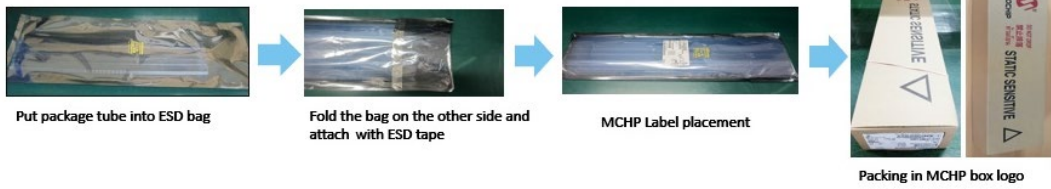
2.5x2.5 mm.	26020378	CLEAR	BLUE	3.00±0.08	381.00±1.14
7.75x6.25 mm.	26020585	CLEAR	BLUE	6.75±0.08	381.00±1.14

NOTE:

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.

FILE TUBE_26020378.DWG
ECN NO. 0306/12

Change Summary –H4A Packing TUBE

Description	NSEB	STAR
Packing Material/Method	 The NSEB packing process is shown in four steps: 1. A black ESD bag with an MCHP Label and Filament tape. 2. The bag is placed into a pink bubble wrap tube. 3. The tube is placed into a cardboard box labeled 'STATIC SENSITIVE' with an MCHP Label and 1 Filament tape. 4. The final packed box.	Packing method(MSL Level 1):  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.

Change Summary –H4A Packing TUBE

Description	NSEB	STAR
Packing Material- Inner Box Size		

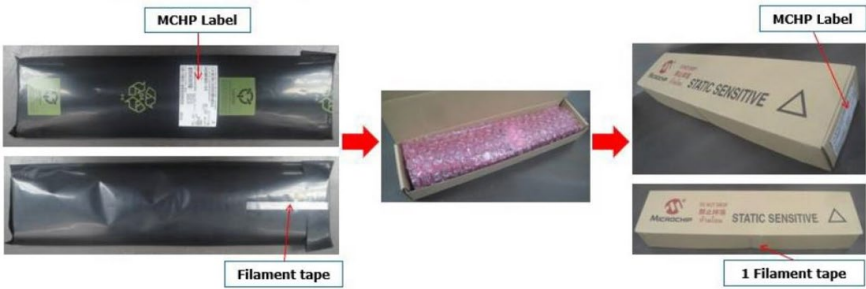
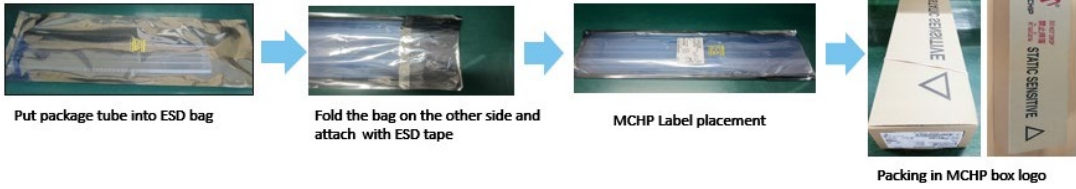
Change Summary –J5A Packing -TUBE

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	DESCRIPTION OF CHANGE <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> CLASS 2 DOCUMENT <table><tr><td>TUBE COLOUR</td><td>PRINT COLOUR</td></tr><tr><td>CLEAR</td><td>BLUE</td></tr></table> NOTE: 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^5 TO 10^9 OHMS PER SQUARE. 3. TUBE MATERIAL TO BE CLEAR , RIGID PVC. 4. PRINTING : WHOLE PRINTING AND AT LEAST ONE COMPLETE PRINT 5. STOCK NUMBER : XXXXX LAST 5 DIGITS. 6. PRINT HEIGHT = 1.851 mm. REF. 0179/06 <table><tr><td>STK# 26020454</td></tr><tr><td>FILE TUBE-212.DWG</td></tr><tr><td>U:\Drawing\parts\Tube\ref</td></tr><tr><td>ECN NO.</td></tr></table>	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:\Drawing\parts\Tube\ref	ECN NO.	DESCRIPTION OF CHANGE <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> CLASS 2 DOCUMENT <table><tr><td>TUBE COLOUR</td><td>PRINT COLOUR</td></tr><tr><td>CLEAR</td><td>BLUE</td></tr></table> NOTE: 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^5 TO 10^9 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. 0179/06 <table><tr><td>STK# 26020454</td></tr><tr><td>FILE TUBE-212.DWG</td></tr><tr><td>U:\Drawing\parts\Tube\ref</td></tr><tr><td>ECN NO.</td></tr></table>	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:\Drawing\parts\Tube\ref	ECN NO.
1.20±0.20/0.10	SEP 07,2004	A																												
	JAN 30,2006	B																												
TUBE COLOUR	PRINT COLOUR																													
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FILE TUBE-212.DWG																														
U:\Drawing\parts\Tube\ref																														
ECN NO.																														

Change Summary –J5A Packing -TUBE

Description	NSEB	STAR
Packing Material/Method	 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.	Packing method(MSL Level 1):  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.

Change Summary –J5A Packing -TUBE

[illegible]

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. REVISIONS

REV.	DATE	DESCRIPTION	PROPOSED BY
G	SEP 27,2007	UPDATE NOTE FOR SURFACE RESISTIVITY	
H	DEC 19,2007	CHANGE MATERIAL TO RIGID AND CLEAR (FROM PLUG IN)	
J	FEB 01,2012	ADD ORANGE PLUG ON SHEET 5	
K		REVISE PLUG DIMENSION ON SHEET 4	
L		ADD BIRD TUBE FOR LUTAL SHEET 5	
M		CHANGE SHEET 5 FROM MULTIPLE TUBES TO SHEET 5	DATA/MAAT S

1. ALL DIMENSIONS ARE IN MILLIMETERS.

2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY BETWEEN 10^9 TO 10^{10} OHMS PER SQUARE.

3. TUBE MATERIAL TO BE CLEAR,RIGID PVC.

4. PRINTING : WHEEL PRINTING AND AT LEAST ONE COMPLETE PRINT PER TUBE.

5. STOCK NUMBER : XXXXX LAST 5 DIGITS.

6. PRINT HEIGHT = 1.651 mm. REF.

FILE: TBCC001K.DWG
L:\drawing\tube\hcc\
ECN NO. 0302/12

Technical drawing of NSEB tube. The main view shows a rectangular tube with a width of 12.70 mm and a length of 88.90 Max. The tube is labeled 'ANTISTATIC' and 'XXXXX'. A detail view shows the tube's cross-section with a diameter of 1.2740.08 mm and a wall thickness of 0.50840.127 mm. The tube has a radius of R0.635 TYP. The drawing includes a table of dimensions and a note about the tube's surface resistivity.

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

1. REVISIONS

REV.	DATE	DESCRIPTION	PROPOSED BY
G		UPDATE NOTE FOR SURFACE RESISTIVITY	
H		CHANGE MATERIAL TO RIGID AND CLEAR (FROM PLUG IN)	
J		ADD ORANGE PLUG ON SHEET 5	
K		REVISE PLUG DIMENSION ON SHEET 4	
L		ADD BIRD TUBE FOR LUTAL SHEET 5	
M		CHANGE SHEET 5 FROM MULTIPLE TUBES TO SHEET 5	DATA/MAAT S

1. ALL DIMENSIONS ARE IN MILLIMETERS.

2. ANTISTATIC TUBE TO HAVE A SURFACE RESISTIVITY $\geq 1 \times 10^9$ TO $< 1 \times 10^{12}$ OHMS/Sq BETWEEN SURFACE RESISTANCE $\geq 1 \times 10^9$ TO $< 1 \times 10^{11}$ OHMS.

3. TUBE MATERIAL TO BE CLEAR,RIGID PVC.

4. PRINTING : WHEEL PRINTING AND AT LEAST ONE COMPLETE PRINT PER TUBE.

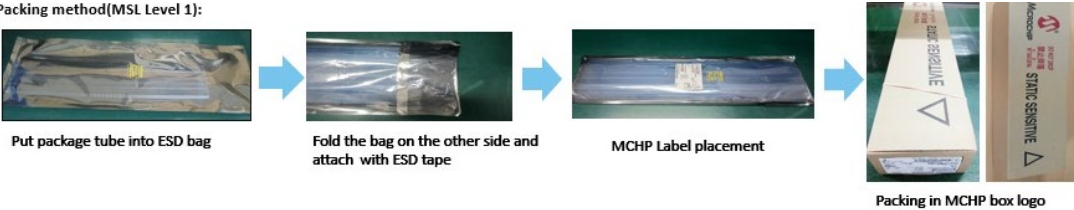
5. STOCK NUMBER : XXXXX LAST 5 DIGITS.

6. PRINT HEIGHT = 1.651 mm. REF.

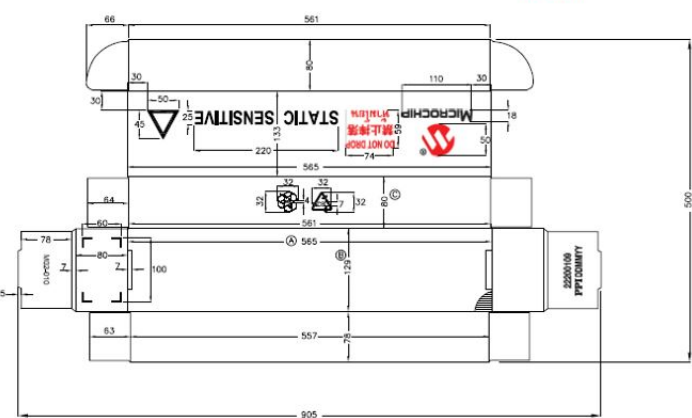
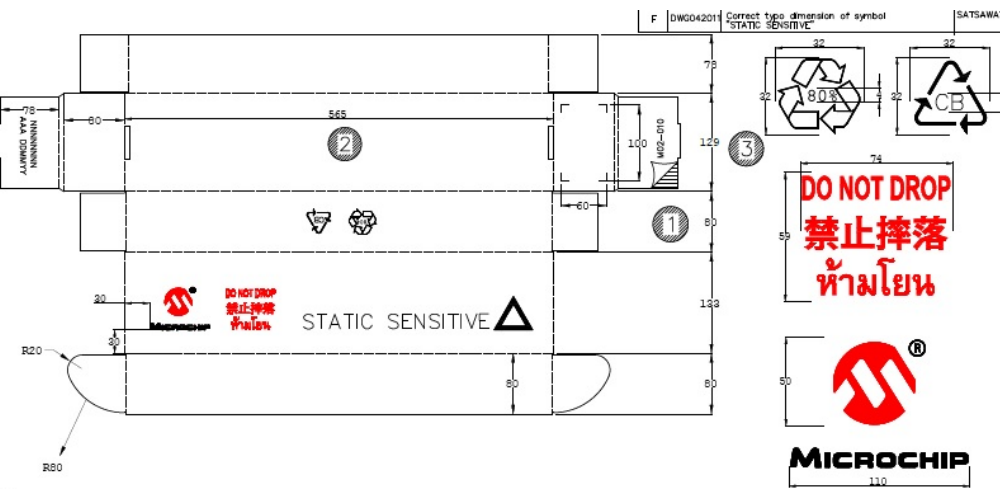
Technical drawing of STAR tube. The main view shows a rectangular tube with a width of 12.70 mm and a length of 88.90 MAX. The tube is labeled 'ANTISTATIC' and 'XXXXX'. A detail view shows the tube's cross-section with a diameter of 1.27 mm and a wall thickness of 0.508 mm. The tube has a radius of R0.635 TYP. The drawing includes a table of dimensions and a note about the tube's surface resistivity.

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

Change Summary –H6A Packing TUBE

Description	NSEB	STAR
Packing Material/Method	 The NSEB packing process is shown in four steps: 1. A black ESD bag with an MCHP Label and Filament tape. 2. A box of pink packing peanuts. 3. A cardboard box with an MCHP Label and 1 Filament tape. 4. A completed cardboard box with an MCHP Label and 1 Filament tape.	Packing method(MSL Level 1):  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.

Change Summary –H6A Packing TUBE

Description	NSEB	STAR
Packing Material- Inner Box Size	CLASS 2 DOCUMENT EON NO DESCRIPTION CHANGE DATE REV INITIAL RELEASE ADD PRINTING "DO NOT DROP" APR 23,16  STK# 26030328 FILE: 26030328.DWG. DWTUBE BOX MCH	F DWG04201 Correct type dimension of symbol "STATIC SENSITIVE" SATSAWAT S. 

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



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

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

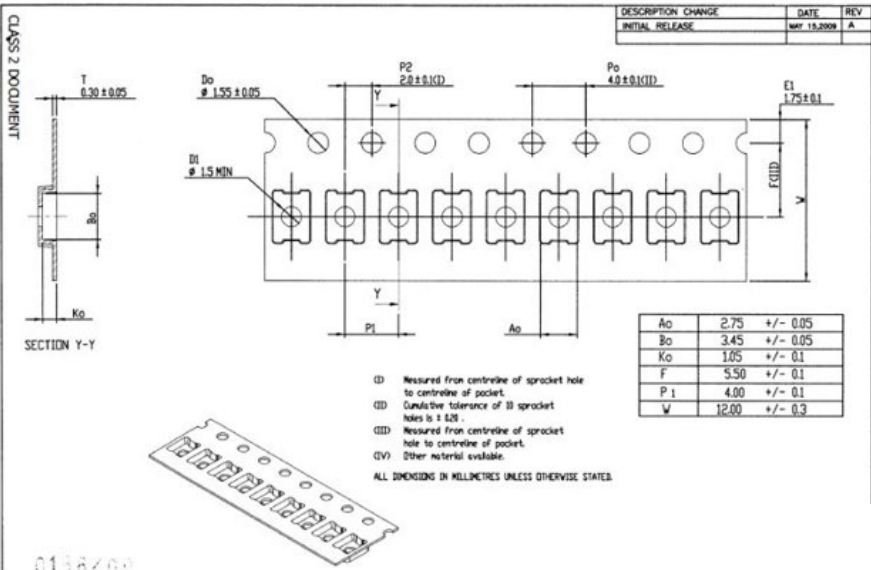
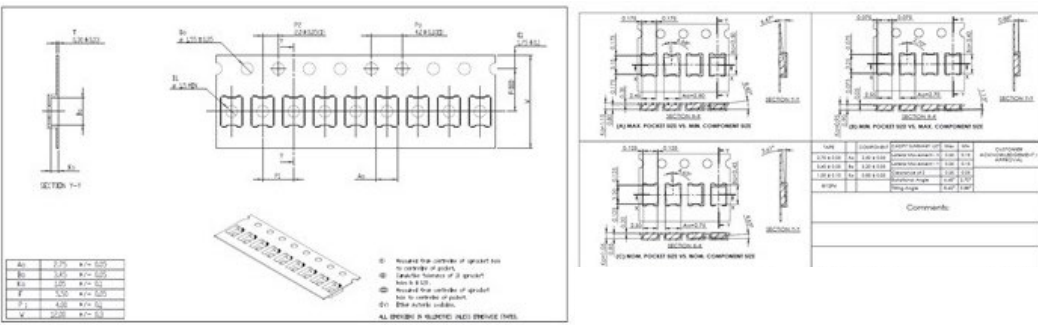


SMART | CONNECTED | SECURE

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

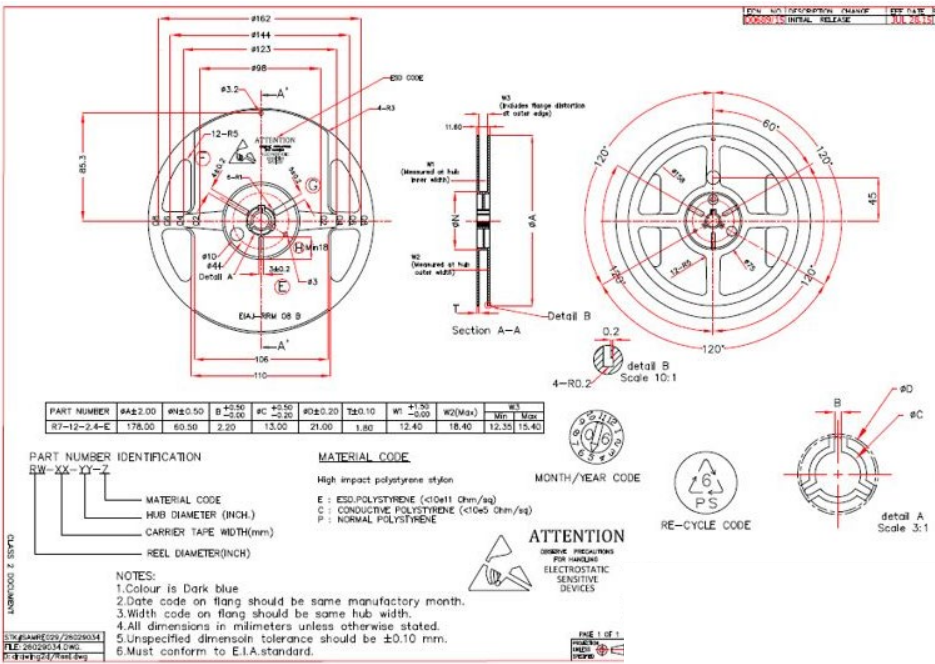
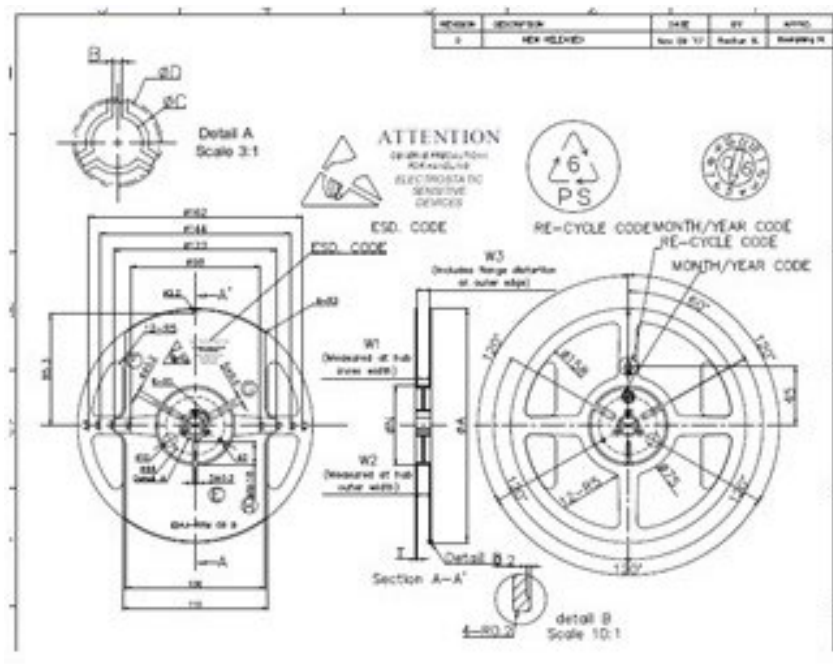
Change Summary –H4A Packing TR

Description	NSEB	STAR																																										
Carrier Tape	CLASS 2 DOCUMENT DESCRIPTION CHANGE INITIAL RELEASE DATE MAY 19, 2009 REV A  SECTION Y-Y <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>P1</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> ① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.25. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. 0168/00 STK# SAMCA010,26028011 FILE: SAM26028011.DWG D:\DRAWING\TNR ECN NO. NOTE: - ALL DIMENSIONS ARE IN mm.				Ao	2.75	+/- 0.05	Bo	3.45	+/- 0.05	Ko	1.05	+/- 0.1	F	5.50	+/- 0.1	P1	4.00	+/- 0.1	W	12.00	+/- 0.3	 SECTION Y-Y ① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.25. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. <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>P1</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> ① Measured from centreline of sprocket hole to centreline of pocket. ② Cumulative tolerance of 10 sprocket holes is ± 0.25. ③ Measured from centreline of sprocket hole to centreline of pocket. ④ Other material available. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.				Ao	2.75	+/- 0.05	Bo	3.45	+/- 0.05	Ko	1.05	+/- 0.1	F	5.50	+/- 0.1	P1	4.00	+/- 0.1	W	12.00	+/- 0.3
Ao	2.75	+/- 0.05																																										
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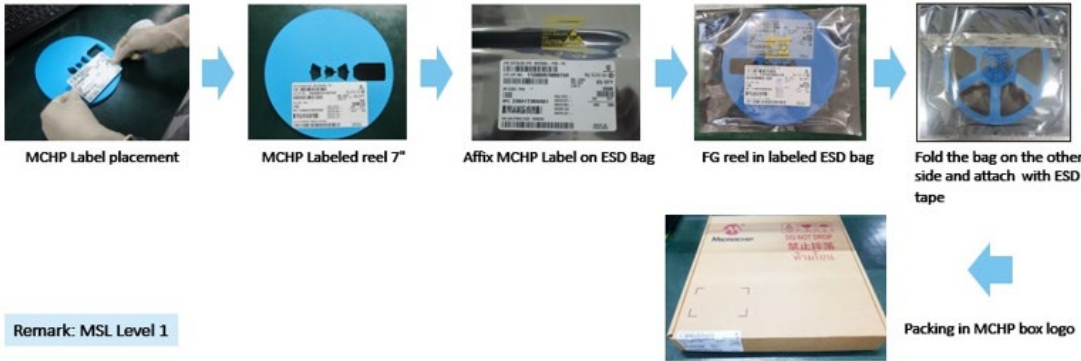
Change Summary –H4A Packing TR

Description	NSEB	STAR
Cover Tape	CLASS 2 DOCUMENT </	

Change Summary –H4A Packing TR

Description	NSEB	STAR																				
Plastic Reel	 Technical drawing of NSEB plastic reel showing top, side, and detail views with dimensions and material specifications. REVISION <table><tr><th>REVISION</th><th>DESCRIPTION</th><th>DATE</th><th>BY</th><th>APPROVED</th></tr><tr><td>1</td><td>NEW RELEASED</td><td>Nov 08 11</td><td>Richard K.</td><td>Shirley M.</td></tr></table> ATTENTION OPTIMIZE PRODUCTION RECYCLE POLYSTYRENE ELECTROSTATIC SENSITIVE DEVICES RE-CYCLE CODE MONTH/YEAR CODE RE-CYCLE CODE ESD CODE W3 (Includes flange deformation at outer edge) W1 (Measured at hub inner width) W2 (Measured at hub outer width) Section A-A' Detail B Scale 10:1 Detail A Scale 3:1 4-RD.2 Part Number Identification SW-XX-YY-Z MATERIAL CODE High impact polystyrene stylen E : ESD-POLYSTYRENE (<10e11 Ohm/sq) C : CONDUCTIVE POLYSTYRENE (<10e5 Ohm/sq) P : NORMAL POLYSTYRENE 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. FILE 20120614.DWG DATE 2012/06/14 DESIGNER [Signature]	REVISION	DESCRIPTION	DATE	BY	APPROVED	1	NEW RELEASED	Nov 08 11	Richard K.	Shirley M.	 Technical drawing of STAR plastic reel showing top, side, and detail views with dimensions and material specifications. REVISION <table><tr><th>REVISION</th><th>DESCRIPTION</th><th>DATE</th><th>BY</th><th>APPROVED</th></tr><tr><td>1</td><td>NEW RELEASED</td><td>Nov 08 11</td><td>Richard K.</td><td>Shirley M.</td></tr></table> ATTENTION OPTIMIZE PRODUCTION RECYCLE POLYSTYRENE ELECTROSTATIC SENSITIVE DEVICES RE-CYCLE CODE MONTH/YEAR CODE RE-CYCLE CODE ESD CODE W3 (Includes flange deformation at outer edge) W1 (Measured at hub inner width) W2 (Measured at hub outer width) Section A-A' Detail B Scale 10:1 Detail A Scale 3:1 4-RD.2	REVISION	DESCRIPTION	DATE	BY	APPROVED	1	NEW RELEASED	Nov 08 11	Richard K.	Shirley M.
REVISION	DESCRIPTION	DATE	BY	APPROVED																		
1	NEW RELEASED	Nov 08 11	Richard K.	Shirley M.																		
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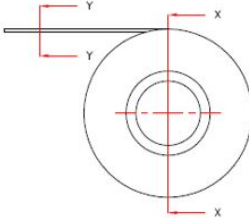
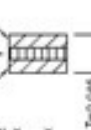
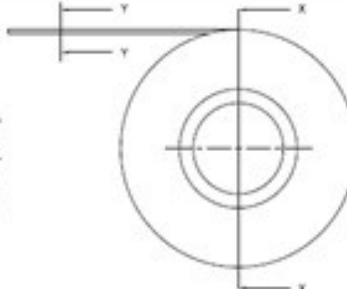
Change Summary –H4A Packing TR

Description	NSEB	STAR
Packing Material/Method	 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'. 3. The bag with 'Filament tape' applied. 4. The bag placed inside a cardboard box. 5. The final packed box with an 'MCHP Label'.	 The STAR packing process is shown in a sequence of five images connected by blue arrows. 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'. Below the sequence, a box is shown with the instruction 'Packing in MCHP box logo'. A blue arrow points from the box back to the final step of the sequence. Remark: MSL Level 1

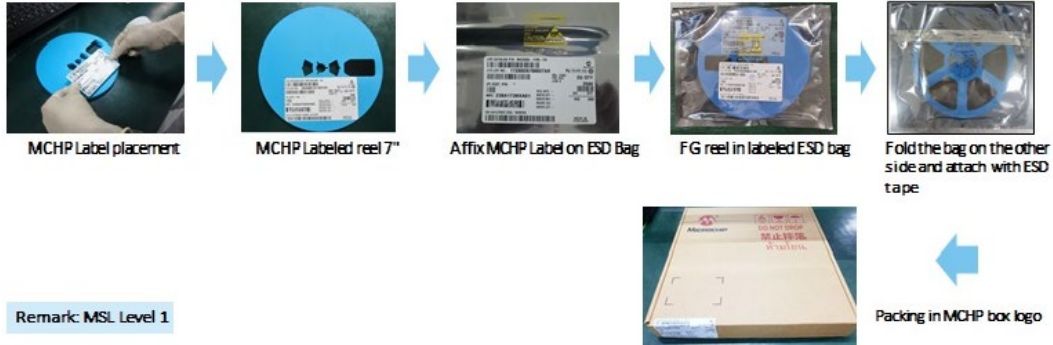
Change Summary –J5A Packing TR

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	CLASS 2 DOCUMENT <table><tr><th>DCN NO.</th><th>DESCRIPTION OF CHANGE</th><th>REV DATE</th><th>REV</th></tr><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></table> POLYETHYLENE TEREPHTHALATE HEAT ACTIVATED ADHESIVE  SECTION Y-Y   SECTION X-X <table><tr><th>STANDARD COVER TAPE WIDTH* (W±0.1)</th><th>CARRIER TAPE WIDTH</th></tr><tr><td>5.4</td><td>B</td></tr></table> NOTES: 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.PEEL STRENGTH CONFORMS TO EA SPEC:20 to 80g. 7.RECOMMENDED SHELF LIFE:TWO YEAR. 8.LUMINOUS TRANSMITTANCE :.65% 9.HAZE : 27% *10. OTHER COVER TAPE WIDTH REFER TO M4.08-04 REV: 000000 / 000000 REV: 0000 / 00000000 REV: 000000 / 00000000 NOTE: ALL DIMENSION ARE IN mm.	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	B	POLYESTER (PET) MIDDLE LAYER HEAT SEALANT LAYER  SECTION Y - Y   SECTION X - X
DCN NO.	DESCRIPTION OF CHANGE	REV DATE	REV																							
	INITIAL RELEASE		A																							
	REVISE DRAWING AND ADD STOCK 20027001		B																							
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STANDARD COVER TAPE WIDTH* (W±0.1)	CARRIER TAPE WIDTH																									
5.4	B																									

Change Summary –J5A Packing TR

Description	NSEB	STAR
Packing Material/Method	 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. 5. The box is labeled with an 'MCHP Label'.	 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 cardboard box). A 'Remark: MSL Level 1' is noted.

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

NSEB

STAR

Carrier Tape

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# SAMCA011,26028012
 FILE: 26028012.DWG
 D:\KATTANAM\DWG
 ECN NO.

2 OF 2
 PRELIMINARY
 UNLESS
 SPECIFIED

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# SAMCA011,26028012
 FILE: 26028012.DWG
 D:\KATTANAM\DWG
 ECN NO.

2 OF 2
 PRELIMINARY
 UNLESS
 SPECIFIED

Change Summary –H6A Packing TR

Description	NSEB	STAR
Cover Tape	CLASS 2 DOCUMENT POLYETHYLENE TEREPHTHALATE HEAT ACTIVATED ADHESIVE Y Y X X W 76.5±1.0 SECTION X - X **WIDTH 9.2 mm ±0.1** Note 1. THICKNESS : 0.040-0.060 mm 2. STANDARD LENGTH : 500m 3. TENSILE STRENGTH : 7.75kg/mm sq 4. ELONGATION : 120-140% 5. SURFACE RESISTIVITY : 10¹⁰ 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 * 0417/09 REF: 2902/2002 FILE: 2902/2002.DWG BY: [signature] ECN NOTE : - ALL DIMENSIONS ARE IN mm.	POLYESTER (PET) MIDDLE LAYER HEAT SEALANT LAYER Y Y X X W 76.5±1.0 SECTION X - X Y Y X X SECTION Y - Y T=0.046

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



QUALIFICATION REPORT SUMMARY

PCN #: ASER-09RAOP971

Date
October 29, 2021

**Qualification of STAR as an additional final test site for
selected DSC100xxx device family 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 device family 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
Original Final Test Site Correlation	Run 3,000 devices to the final test flows at the original site and keep the good devices and rejects in separate bins.
Original Final Test Site Characterization	Characterize 33 good devices at the original test site with DC items and measurable functional test items which are specified in the product datasheet (ex. Tce, Icc, Isb, Vih, Vil, Voh, Vol) and send these devices to the destination final test site.
Destination Final Test Site Characterization	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.
Destination Final Test Site Correlation	Send 3,000 tested parts to the destination test site. The results need 100% correlation to continue the release flow.
Destination Final Test Site Cross Correlation	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%

Affected Catalog Part Numbers (CPN)

DSC1001CI1-004.0000T
DSC1001CI5-014.7456T
DSC1001DE2-032.0000
DSC1001DE5-016.0000
DSC1001DE5-019.2000
DSC1001DL1-008.0000
DSC1001DE2-024.0000
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DSC1001DL2-008.0000
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