



Product Change Notification

Current Date: 02-May-2023

TE Connectivity

Product Change Notification: PCN-23-172471

PCN Date: 18-APR-23

Customer: Future Electronics(0000080100)

Location: WORLDWIDE

Agreement: Agreement Unknown

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:

CAGE ASSEMBLY OF ZQSFP PLUS

Description of Changes

Change will only for center EMI spring of listed parts. Before change: post-plating nickel; After change: Pre-plating nickel. Nickel thickness is not changed. No affecting to performance, detail see attachment.

Other attachments:
[Supporting Doc.](#)
Reason for Changes:

Streamline manufacturing and component management.

PCN Attributes:
Product Category:

Connectors

Kind of Change:

Specification

Change Feature:

Product Specification

Potential Customer Impact:

No Customer Impact

Remarks:

Plating process change for center EMI spring

Estimated Dates:

Last Order Date (Obsolete Parts Only):

First Ship Date of Changed Items (Changed Parts Only):

19-JUN-2023

Last Ship Date of Changed Items (Obsolete Parts Only):

Last Date for Mixed Shipments: (Changed Parts Only):

No Mixed Shipments

Effectivity Date:

Date of First Samples:

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299924-3	NO						
2299940-5	NO						
2308171-1	NO						
2308171-2	NO						
2308171-4	NO						
2308171-5	NO						

Customer: Future Electronics Ltd (1273129)

Location: Egham

Agreement Number: Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299940-5	NO						
2308171-1	NO						
2308171-2	NO						
2308171-4	NO						

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2308171-5	NO						

Customer: Future Electronics Inc (184927)

Location: Pointe Claire

Agreement Number: Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299924-3	NO						
2299940-5	NO						

Customer: Future Electronics Inc (3232408)

Location: Southaven

Agreement Number: Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299924-3	NO						
2299940-5	NO						

Customer: Future Electronics Inc (1290208)

Location: Southaven

Agreement Number: Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299924-3	NO						
2299940-5	NO						

Customer: Future Electronics Ltd (2895038)

Location: Leipzig

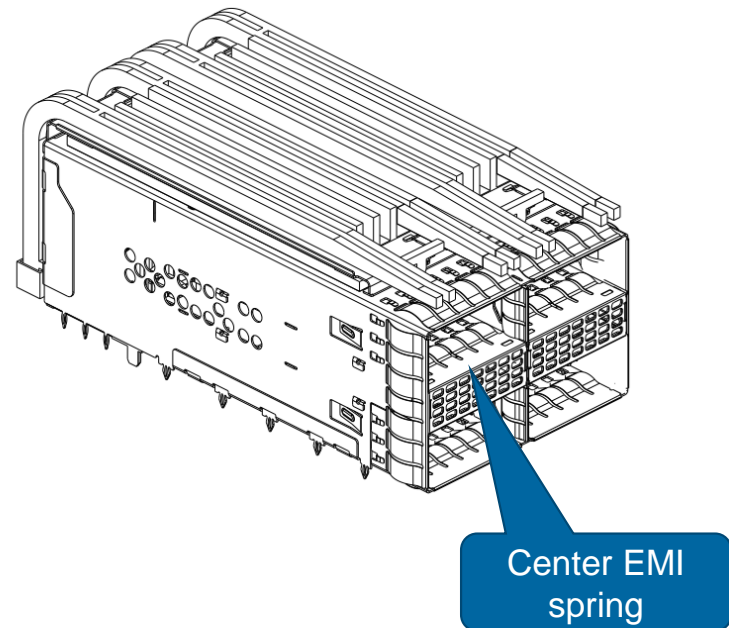
Agreement Number: Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2299940-5	NO						
2308171-1	NO						
2308171-2	NO						
2308171-4	NO						
2308171-5	NO						

PCN details:

1. Change description:
For center EMI spring of zQSFP+ stack cage assembly,
the nickel plating will be changed from post-plating to
pre-plating
2. Impacted FG:
zQSFP+ Stack Cage Assembly
3. Where changed:
Center EMI spring, see right image
4. Impacted FG part numbers:
See page 2
5. Appearance comparison and salty testing
See page 3 and page 4



Impacted FG list:

DWG number	2170608	2170610	2170695	2214565	2214593	2227670	2307998	2314790	2293961	2298896	2321666	2301859	2302407
PNs	1-2170608-1	1-2170610-1	1-2170695-1	2214565-1	2214593-1	2227670-1	1-2307998-2	2314790-1	2293961-1	2298896-8	2321666-1	2301859-7	2302407-1
	2170608-1	1-2170610-3	2170695-1	2214565-2	1-2214593-2	2227670-2	1-2307998-1	2-2314790-1	2293961-2	2298896-9	2321666-3	2301859-1	
		2170610-1		2214565-3	2214593-2	2227670-3	2307998-2	1-2314790-1	2293961-3			2301859-2	
		2170610-3		1-2214565-2	2214593-3	2227670-7		2314790-2	2293961-4			2301859-3	
								2314790-3	2293961-5				
DWG number	2289742	2170656	2198153	2198209	2198373	2227224	2227225	2227226	2227666	2227668	2287454	2338940	
PNs	2289742-1	2170656-1	2198153-2	2198209-1	2198373-1	2227224-1	2227225-1	2227226-1	2227666-1	2227668-1	2287454-1	2338940-1	
	2289742-3	2170656-2		2198209-3	2198373-2	2227224-2	2227225-2	2227226-2	2227666-2	2227668-2			
		2170656-3			2198373-3	2227224-3	2227225-3	2227226-3	2227666-3	2227668-3			
DWG number	2299870	2298896	2227671	2289129	2308171	2227669	2214574	2299924	2299940	2227667	2309447	2321630	
PNs	2-2299870-0	2298896-1	2227671-1	2289129-1	2308171-1	1-2227669-1	2214574-1	2299924-1	2299940-1	2227667-1	2309447-1	2321630-1	
	2-2299870-4	2298896-2	2227671-2	2289129-2	2308171-7	2-2227669-1	2214574-2	1-2299924-0	2299940-8	2227667-2	2-2309447-1	2321630-2	
	2-2299870-5	2298896-3	2227671-3	2289129-3	1-2308171-2	2-2227669-5	2214574-3	1-2299924-3	1-2299940-1	2227667-3	2309447-2	2321630-3	
	3-2299870-0	2298896-4	2227671-4	2289129-4	1-2308171-0	2-2227669-3	2214574-4	2299924-3	1-2299940-2	1-2227667-1			
	3-2299870-1	2298896-5	2227671-5	2289129-5	3-2308171-0	2227669-1	2214574-5	2299924-2	2299940-3	1-2227667-2			
	1-2299870-2	2298896-6	2227671-6	2289129-6	1-2308171-1	3-2227669-1	2214574-6	2299924-4	2299940-6				
	1-2299870-3	2298896-7	2227671-7	2289129-7	3-2308171-1	2227669-2	2214574-7	2299924-5	2299940-2				
	2299870-3		2227671-8	2289129-8	2308171-9	2227669-5	2214574-8	2299924-8	2299940-4				
	1-2299870-6		2227671-9	2289129-9	2308171-2	2-2227669-0	2214574-9	1-2299924-6	2299940-5				
	2-2299870-3		1-2227671-0	1-2289129-1	2308171-3	2227669-3	1-2214574-0	2-2299924-6					
	2299870-1		1-2227671-1	1-2289129-3	1-2308171-3	2227669-7		2299924-6					
	2299870-2		1-2227671-2		2308171-5	2227669-8		3-2299924-6					
	2299870-4				2308171-8	2227669-9							
	2299870-6				2308171-4	1-2227669-0							
	2299870-5				2308171-6	2-2227669-2							
	2-2299870-8				2-2308171-0	2-2227669-6							
	2299870-8												

Appearance comparison

Before: 冲压后电镀(electroplating after stamping)



Incoming status



Not expose substrate at cutting surface

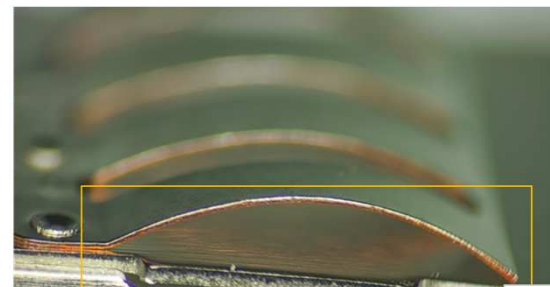


FG status

After: 预镀材冲压(stamping after pre-plating)



Incoming status



Expose the substrate at cutting surface



FG status

小结：冲压后电镀与预镀材冲压的EMI spring在物料状态的切断面上有差异，组装成品后外观上无明显差异；

Summary: Except the little difference at EMI cutting surface, there is no obvious difference after assemble to FG for both plating type.

Salt Spray Corrosion Test for Pre-plating EMI spring

3.1 实验条件(Test Condition):

- 盐液浓度 (the Salt-solution Concentration): $5\pm 1\%$
- 酸碱度PH值: 6.5~7.2
- 盐雾室温度(Chamber Temperature): $35\pm 2\text{ }^{\circ}\text{C}$
- 喷雾压力(Air Supply Pressure): 68.6~176.4Kpa
- 试验持续时间(Duration): 48H

3.2 观察分析(Observation and Analysis):

- 5pcs EMI spring 样品经48小时盐雾试验后, 样品在10倍显微镜下观察Top面无镀层破裂, 起泡及腐蚀等不良。

After 48-hours Salt Spray Corrosion test for 5pcs EMI spring samples, the surface of samples was observed under a 10x microscope without any crack, blister or corrosion phenomenon.

3.3 试验判定 (Judgement):

- 48H 盐雾试验判定OK。

The test result of 48-hours salt spray test was OK

