



TE Connectivity

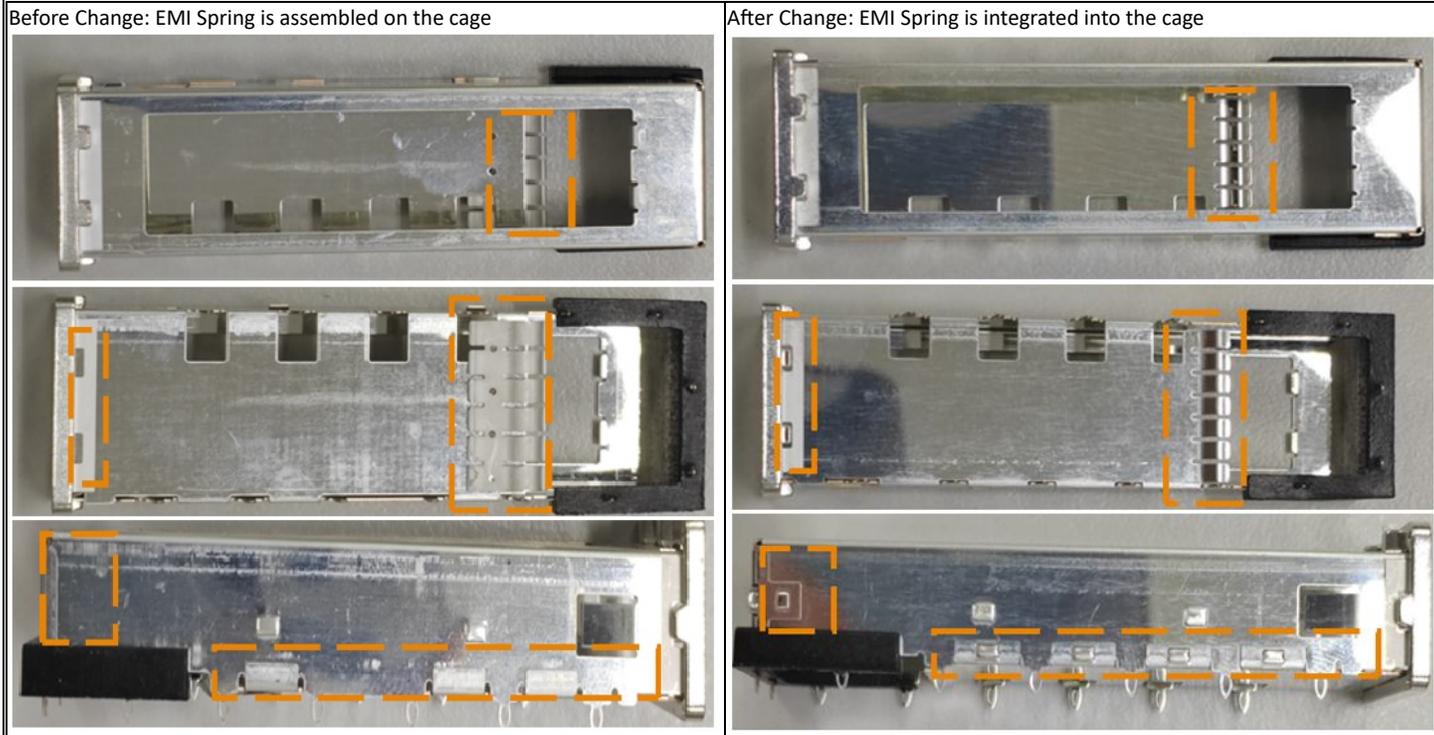
Product Change Notification: PCN-23-172909

PCN Date: 24-APR-23

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:**  
XFP Cage Assembly

**Description of Changes**  
Please be aware of an upcoming feature change to the listed part numbers. Before Change: The intermediate EMI spring and the cage are two individual components and are assembled together to make the final cage assembly. After Change: The EMI Spring will be integrated into the cage design and would therefore become one single unit. Design Proposal Details have been attached along with the PCN. .



**Other attachments:**  
[Design Proposal](#)

**Reason for Changes:**  
To avoid the possibility that the spring may get peeled off from the cage after a long-time usage.

<b>PCN Attributes:</b>	
<b>Product Category:</b> Connectors	<b>Kind of Change:</b> Geometry
<b>Change Feature:</b> Special Design Feature	<b>Potential Customer Impact:</b> No Customer Impact
<b>Remarks:</b>	

<b>Estimated Dates:</b>	
<b>Last Order Date (Obsolete Parts Only):</b>	<b>First Ship Date of Changed Items (Changed Parts Only):</b> 31-OCT-2023
<b>Last Ship Date of Changed Items (Obsolete Parts Only):</b>	<b>Last Date for Mixed Shipments: (Changed Parts Only):</b> No Mixed Shipments

Effectivity Date:	Date of First Samples:
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**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
<a href="#">1489951-1</a>	NO						
<a href="#">1658871-1</a>	NO						
<a href="#">1658945-1</a>	NO						

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# The proposal for replacing the existing cage and EMI spring with the new cage design

TE ZH

Apr 19<sup>th</sup> 2023

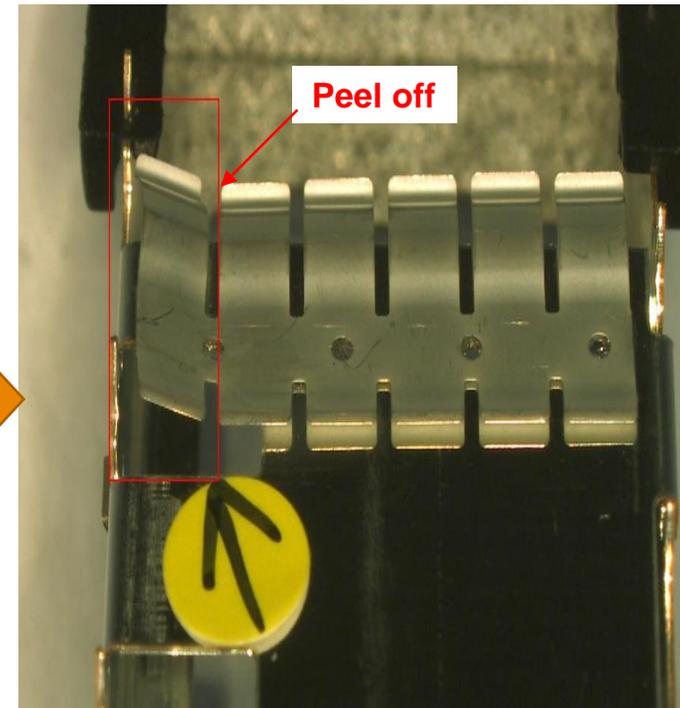
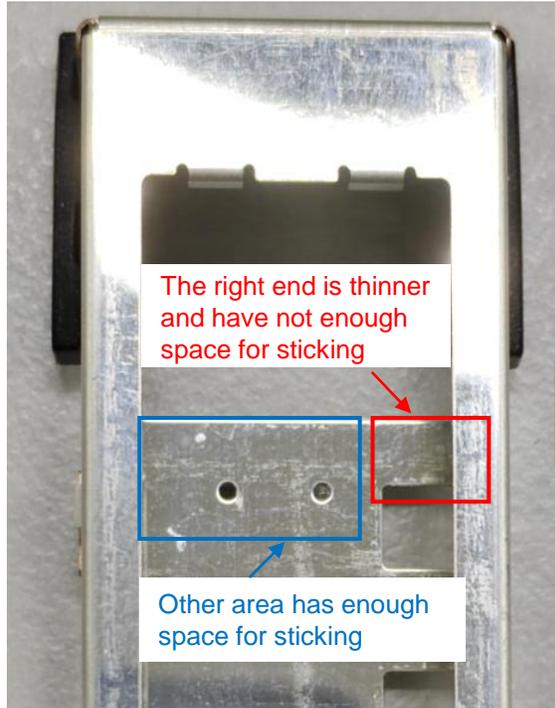
EVERY CONNECTION COUNTS



# The proposal for replacing the existing cage and EMI spring with the new cage design

## Background:

The existing design was that the intermediate EMI spring and the cage are two individual components and need to be assembled through the glue on the backside of EMI. But as the right end of the cage has not enough space for EMI to stick, the right end of the EMI spring has the opportunity to peel off as long time went.



**Front-side partial view of existing cage**  
The right end is thinner than other area and has not enough space for the glue to stick the whole EMI spring

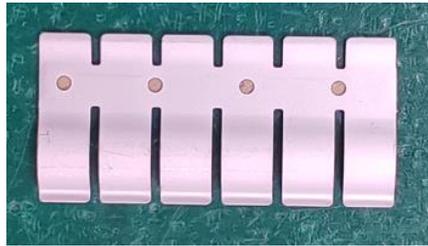
**Back-side partial view of existing cage**  
The EMI spring corresponding to right end location was peel off

# The proposal for replacing the existing cage and EMI spring with the new cage design

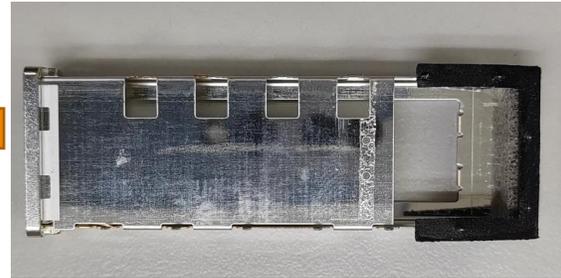
## Proposal :

Use the new cage design----"one piece cage(with in die stamping intermediate EMI spring)" to replace existing cage design, and the intermediate EMI spring wouldn't peel off anymore.

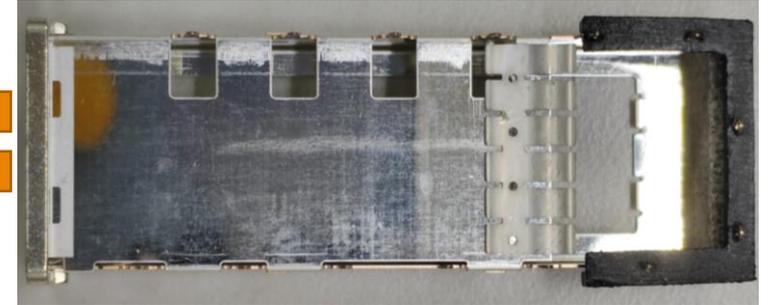
Existing Design:



Intermediate EMI spring

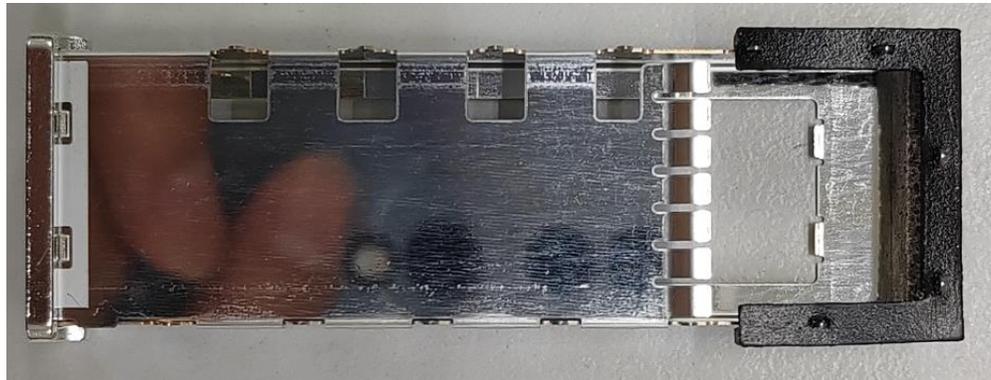


Existing Cage



Finished good  
(P/N: as page.7 P/Ns list)

Proposed Design:

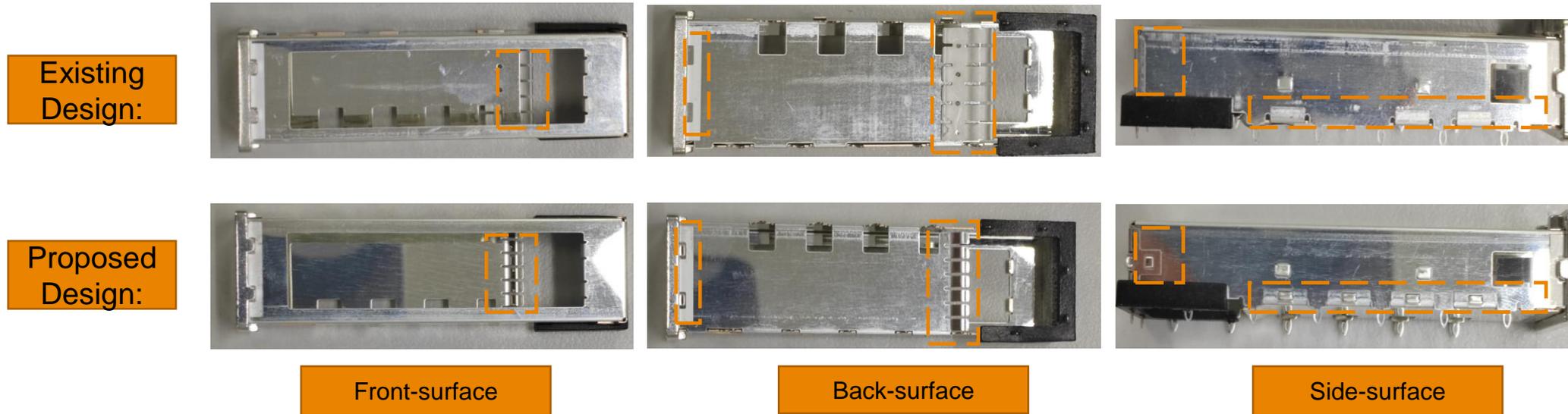


Finished good  
(P/N: as page.7 P/Ns list)

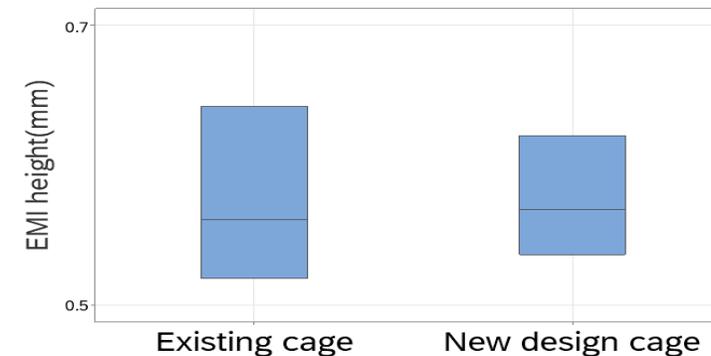
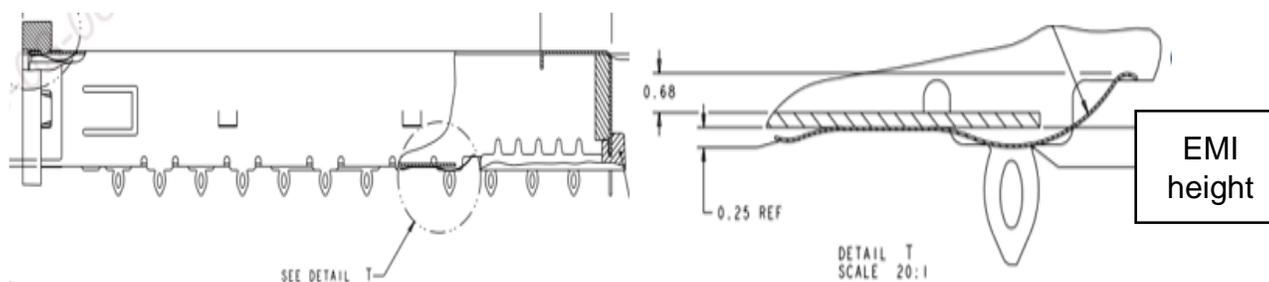
# The proposal for replacing the existing cage and EMI spring with the new cage design

## Comparison for existing cage and new design cage :

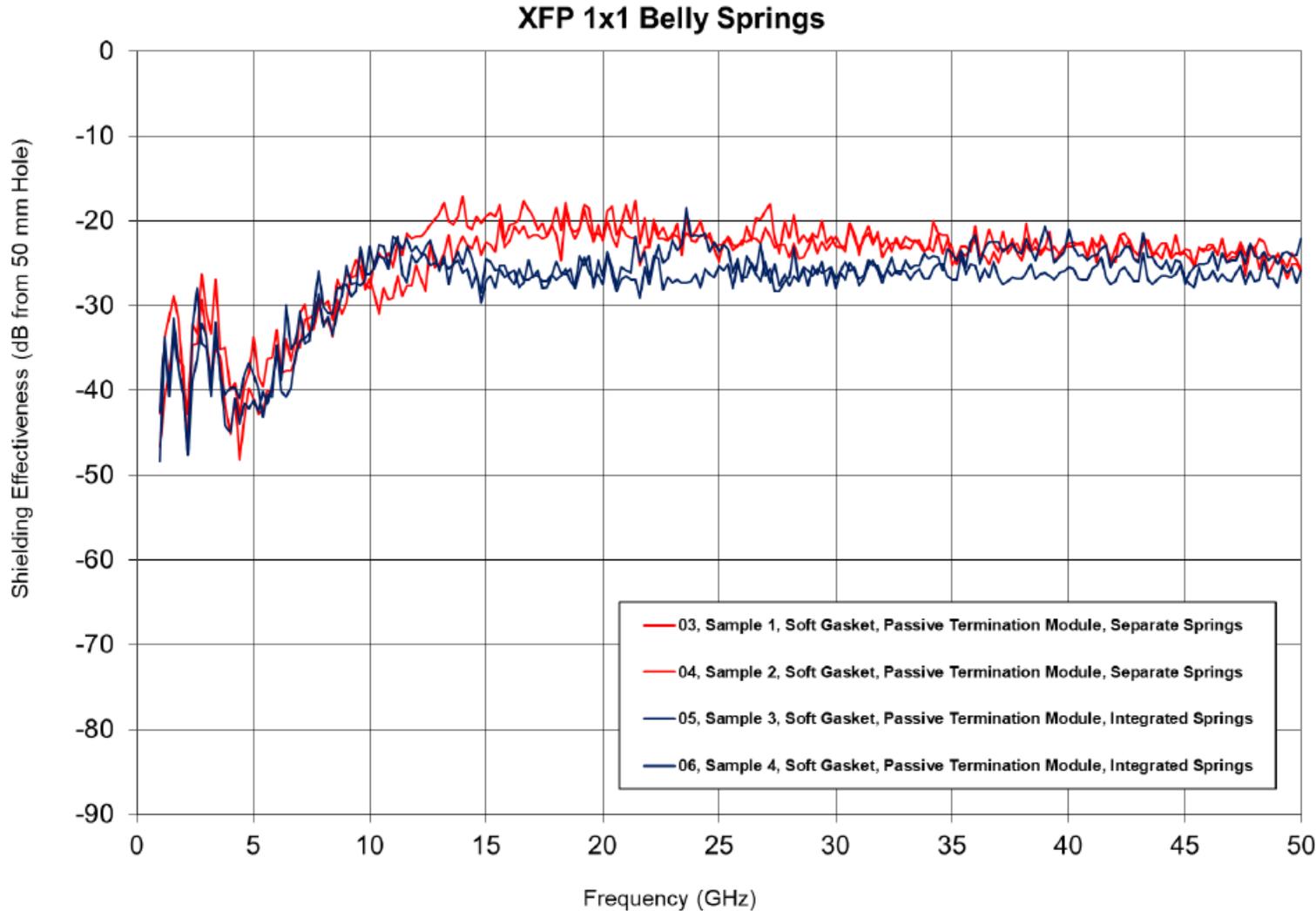
1. **Appearance comparison:** Compared the existing cage and new design cage, there is only a little appearance difference at the back-surface and side surface, (Below is the example picture for P/N 2189951-1 for reference)



2. **EMI height comparison:** Compared the EMI height between existing cage and new design cage , shown that they are in the same level;



**3. EMI test comparison :** Used the existing cage and new design cage to perform the EMI test, the result shown that the EMI performance of new design cage (integrated EMI spring) was slight better than the existing cage and acceptable.



## **Evaluation:**

Basing on the appearance & EMI spring height & EMI perform comparison, confirmed that the EMI spring of new design cage was steadier & stronger than the existing cage which used the glue to fix, both EMI spring height are in the same level, and the EMI performance of new design is better than existing and acceptable.

There will be not function or appearance impact before & after change, suggested that customer can agree to change the existing cage and EMI spring to new cage design.

# The proposal for replacing the existing cage and EMI spring with the new cage design



XFP P/N list : Below is the XFP P/Ns list which are proposed to use the new cage design to replace existing cage and EMI spring .

No	P/N	Description	Last Order Date	First Possible shipment date for the modified parts
1	1489951-1	XFP CAGE ASSEMBLY	D/C 23013	D/C 23442
2	1489951-2	XFP CAGE ASSEMBLY	D/C 14334	
3	1489951-4	XFP CAGE ASSEMBLY	D/C 13042	
4	1658871-1	XFP CAGE ASSY W/ INSULATING TA	D/C 23025	
5	1658871-2	XFP CAGE ASSY W/ INSULATING TAPE	No order until now	
6	1658945-1	XFP CAGE ASSY w/o ELASTOMERIC GASKET	D/C 22476	
7	1888065-1	XFP Networking Kit(cage, clip, heatsink)	D/C 20524	
8	1888101-1	XFP CAGE ASSEMBLY w/o Elastomeric Gasket	D/C 23083	
9	1888116-1	XFP KIT W/CAGE, CLIP, HEAT SINK, SAN	D/C 22295	
10	1888116-2	XFP KIT W/CAGE, CLIP, HEAT SINK, PCI	D/C 22423	
11	1888116-5	XFP KIT W/CAGE, CLIP, HEAT SINK, SAN	No order until now	
12	1888481-1	XFP KIT W/CAGE, CLIP, HEAT SINK, PCI	D/C 21156	
13	1888481-2	XFP KIT W/CAGE, CLIP, HEAT SINK, SAN	D/C 17086	
14	1888481-3	XFP Networking Kit(cage, clip, heatsink)	D/C 23024	
15	1932030-1	XFP CAGE ASSEMBLY	D/C 21172	
16	1932093-1	XFP KIT W/CAGE, CLIP, PCI	D/C 22376	
17	1932602-1	XFP Networking Kit(cage, clip, heatsink)	No order until now	
18	2007092-1	XFP KIT W/CAGE, CLIP, HEAT SINK, PCI	No order until now	
19	2170041-1	XFP KIT ASSY, W/CAGE, CLIP, HEAT SINK	No order until now	
20	2170044-1	XFP KIT W/CAGE, CLIP, HEAT SINK	D/C 13053	
21	2170125-1	XFP KIT W/CAGE, CLIP, 10mm HEAT SINK	No order until now	