

Attn.: \_\_\_\_\_

**Product Change Notification**

We are writing today to inform you that we will make some changes as shown in the subject for the reason described below.

We will announce them in advance.

1	Products affected	IT3 Series IT5 Series (Please refer to Attachment 1 for the details.)
2	Replacement product	No change in product code and product name.
3	Classification of change	Packaging specification change
4	Changes	MSL (Moisture Sensitivity Level) 2A will be changed to MSL1.  The reason why MSL 2A has been applied was to meet the storage period requirement of BGA (solder ball ) used for the products. Since It was applied to contrary to the purpose of the MSL standard, MSL 2A application will be excluded.  In addition, although we announced the inclusion of an indicator card for MSL 2A application in March of 2017 (PCN Business 430-18007), the indicator card will not be enclosed in the future due to this change. We apologize for the inconvenience and thank you for your understanding.  Please refer to Attachment 2 for the details. These changes will not affect the appearances and performances of the products.
5	Reason for change	"LCP" resin used for the target products does not absorb water. Therefore, if the product is baked (heat treated) based on the application of MSL 2A, it might cause BGA oxidization and mounting failure.
6	Timing of change	We are going to change from January 6, 2019.
7	Date of your acknowledgement	By December 28, 2018

We kindly request that you inform Hirose business representative of your acknowledgement by the aforesaid date.

In the absence of a response by this date, please be advised that replacement product that described above will be delivered.

If you should have any questions, please feel free to contact a Hirose business representative.

Your understanding and cooperation are highly appreciated.

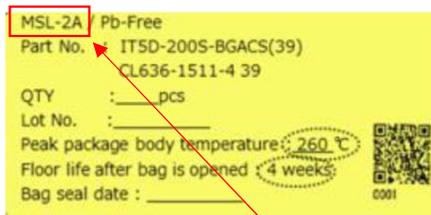
■ Product List Business 430-18044\_IT3,IT5 Series Packaging specification change

No.	Current product		Replacement product		Remarks	
	Product code	Product name	Product code	Product name	Before change	After Change
1	636-0003-8-37	IT3D-200S-BGA(37)	No change in product code and product name		MSL2A	MSL1
2	636-0003-8-39	IT3D-200S-BGA(39)			MSL2A	MSL1
3	636-0003-8-57	IT3D-200S-BGA(57)			MSL2A	MSL1
4	636-0003-8-59	IT3D-200S-BGA(59)			MSL2A	MSL1
5	636-0004-0-37	IT3M-200S-BGA(37)			MSL2A	MSL1
6	636-0004-0-57	IT3M-200S-BGA(57)			MSL2A	MSL1
7	636-0007-9-37	IT3D-300S-BGA(37)			MSL2A	MSL1
8	636-0007-9-39	IT3D-300S-BGA(39)			MSL2A	MSL1
9	636-0007-9-57	IT3D-300S-BGA(57)			MSL2A	MSL1
10	636-0007-9-59	IT3D-300S-BGA(59)			MSL2A	MSL1
11	636-0008-1-37	IT3M-300S-BGA(37)			MSL2A	MSL1
12	636-0008-1-57	IT3M-300S-BGA(57)			MSL2A	MSL1
13	636-0013-1-37	IT3D-100S-BGA(37)			MSL2A	MSL1
14	636-0013-1-39	IT3D-100S-BGA(39)			MSL2A	MSL1
15	636-0013-1-57	IT3D-100S-BGA(57)			MSL2A	MSL1
16	636-0013-1-59	IT3D-100S-BGA(59)			MSL2A	MSL1
17	636-0014-4-37	IT3M-100S-BGA(37)			MSL2A	MSL1
18	636-0014-4-57	IT3M-100S-BGA(57)			MSL2A	MSL1
19	636-0504-3-37	IT3M-100P-15BGA(37)			MSL2A	MSL1
20	636-0504-3-57	IT3M-100P-15BGA(57)			MSL2A	MSL1
21	636-0505-6-37	IT3M-200P-15BGA(37)			MSL2A	MSL1
22	636-0505-6-57	IT3M-200P-15BGA(57)			MSL2A	MSL1
23	636-0506-9-37	IT3M-300P-15BGA(37)			MSL2A	MSL1
24	636-0506-9-57	IT3M-300P-15BGA(57)			MSL2A	MSL1
25	636-0508-4-37	IT3M-200P-14BGA(37)			MSL2A	MSL1
26	636-0511-9-37	IT3M-100P-14BGA(37)			MSL2A	MSL1
27	636-1501-0-39	IT5D-200S-BGA(39)			MSL2A	MSL1
28	636-1502-3-37	IT5M-200S-BGA(37)			MSL2A	MSL1
29	636-1503-6-39	IT5D-300S-BGA(39)			MSL2A	MSL1
30	636-1504-9-37	IT5M-300S-BGA(37)			MSL2A	MSL1
31	636-1513-0-39	IT5D-100S-BGA(39)			MSL2A	MSL1
32	636-1514-2-37	IT5M-100S-BGA(37)			MSL2A	MSL1
33	636-1521-8-39	IT5HD-100S-BGA(39)			MSL2A	MSL1
34	636-1522-0-37	IT5HM-100S-BGA(37)			MSL2A	MSL1
35	636-1523-3-39	IT5HD-200S-BGA(39)			MSL2A	MSL1
36	636-1524-6-37	IT5HM-200S-BGA(37)			MSL2A	MSL1
37	636-1525-9-39	IT5HD-300S-BGA(39)			MSL2A	MSL1
38	636-1526-1-37	IT5HM-300S-BGA(37)			MSL2A	MSL1

## [Attachment 2] Changes

### •Packaging specification change

The label attached on the vacuum packing will be changed as follows since MSL 2A is not applicable.  
(We are going to change from January 6, 2019.)



Label

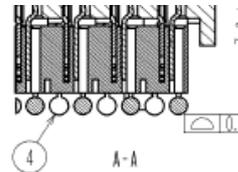
Delete

### •Drawing

Note in the drawing will be changed as follows.

#### NOTE

- 1 IT5HD receptacle to be mated and unmated with IT5\*\*-200P-\*\*H(\*\*).
- 2 Lot no. is marked on top of the connector.
- 3 Minimum clearance for all devices.
- 4 Minimum clearance for sensitive devices.
- 5 Please refer to HIROSE document : ETAD-F0584 "IT5 Design Guideline".
- 6 Maximum coplanarity of the ball field is 0.18 mm.
- 7 Standard package of 72pcs are packaged in a carton box.
- 8 This product is categorized in the MSL2A of IPC/JEDEC J-STD-020B. It is recommended to use within four weeks, defined by JEDEC, in the office environment after unpacked.
- 9 This product is a solder ball locations and co planarity sensitive BGA connector. It is recommended to handle this product with the automated machine. Solder ball locations and coplanarity might be damaged accidentally when it is manually handled by assembly workers.



This product is recommended to be used within four weeks after unpacked due to the possibility of oxidation of BGA.

**Acknowledgement**

(Customer → Hirose Electric business representative)

**Product Change Notification**  
**Request for Your Acknowledgement**

We acknowledge the changes and schedule of this notification.

Customer's name: \_\_\_\_\_

Acknowledgement stamp (or signature): \_\_\_\_\_

HIROSE ELECTRIC CO., LTD.

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(Cut on this line)

**Document Receipt**

(Customer → Hirose Electric business representative)

**Product Change Notification**  
**Request for Your Acknowledgement**

We received the document concerning the above.

Customer's name: \_\_\_\_\_

Acknowledgment stamp (or signature): \_\_\_\_\_

HIROSE ELECTRIC CO., LTD.