

Difference between Shanghai and Hefei plants (5M+1E change point)



Appl No.3022002

| Item | Shanghai Plant | Hefei Plant | Variation | Remarks |
|--------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|
| | TO-252 | | | |
| Name of production plant | GEM Electronics (Shanghai) Co.,Ltd. | GEM Electronics (Hefei) Co.,Ltd. | having | The production site was changed to another plant of GEM. |
| The country of origin | China | | None | The country of origin is the same in China. |
| Man | Workers certified by the contractor | | None | Education is conducted in the same program. No difference in competence. |
| Material | Wafers are supplied by ROHM | | None | Uses the same elements. No difference in elements. |
| | Materials used by contractors | | None | Use of identical assembly materials. (Manufacturer, part number, and production location are also identical) |
| Machine | Use of contractor's equipment | | None | The same manufacturer's machine is used. No difference with the production machine. |
| Method | Contractor's work standards | | None | Use the same work standards. No difference in production methods. |
| Measurement | Measured with a program determined by ROHM | | None | Use the same program/measuring device. No difference in measurement process. |
| Environment | Production process clean room management Temperature: 20 to 28°C Humidity: 40-60% RH Clean room class: 10,000 | | None | The same management is implemented. No difference with respect to environment. |

➤ Production equipment, materials, production method and education program used at the Hefei plant are identical to those used at the Shanghai plant. The only change is a change in production location.

Difference between Shanghai and Hefei Plants (Product Change Points)



Appl No.3022002

| Item | Shanghai Plant | Hefei Plant | Variation | Remarks |
|----------------------------|--------------------------------------------------------------------|-------------|-----------|--------------------------------------------------------------------------------------------------------|
| | TO-252 | | | |
| Absolute maximum ratings | Identity (No difference) | | None | For details, please refer to the individual datasheets. |
| Electrical Characteristics | Identity (No difference) | | None | For details, please refer to the individual datasheets. |
| Dimensions | Identity (No difference) | | None | For details, please refer to the individual datasheets. |
| Reference Land Pattern | Identity (No difference) | | None | For details, please refer to the individual datasheets. |
| Terminal processing | Identity (Electroplating : Sn) | | None | Generation method/material/thickness No difference. |
| Marking method | Identity (Scanning laser marking) | | None | Printing method/size/font No difference. |
| Contents of Marking | Identity (No difference in description) | | None | For details of the description, please refer to the Appendix of 【Identification(Traceability)】section. |
| Packing | Identity (No difference in taping and packaging specifications) | | None | For details, please refer to the individual datasheets. |
| Label | Identity (No difference in description) | | None | For details of the description, please refer to the Appendix of 【Identification(Traceability)】section. |

➤ Product electrical Characteristics, specification and dimensions are same, there is no difference.

Identification (Traceability) of Shanghai and Hefei Plants

| Item | Shanghai Plant | Hefei Plant | Variation | Remarks |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | TO-252 | | | |
| Marking | | | having | <p>The production plant can be identified by the marking (④ with or without dots).</p> <p>【Without dots: Made at Shanghai Plant】, 【With dots: Made at Hefei Plant】</p> |
| | <p>①: Indicate part number ②: Y=end of production year, WW=week of production. ③: XXX = Serial No.</p> | | | |
| Label (Lot No.) | | | having | <p>The last two digits of the Lot No. can be used to identify the production plant.</p> <p>【EG: made in Shanghai plant】 【FG: made in Hefei plant】. (Country of origin: China, no difference)</p> |
| | Lot No. end = EG | Lot No. end = FG | | |