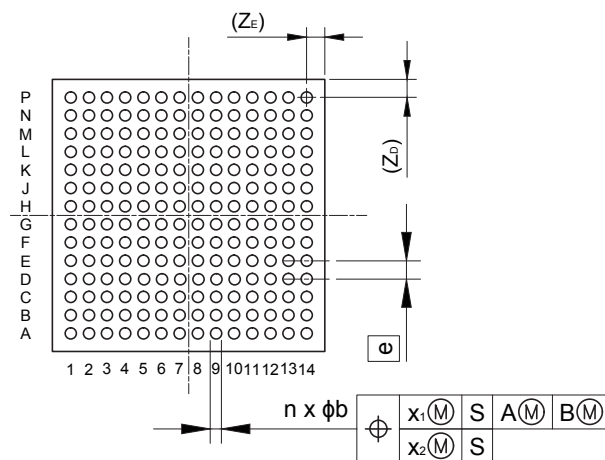
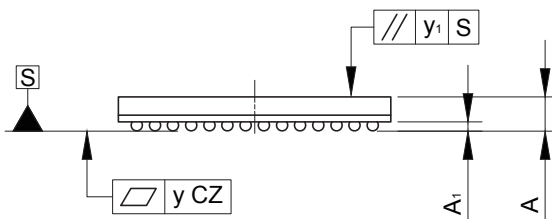
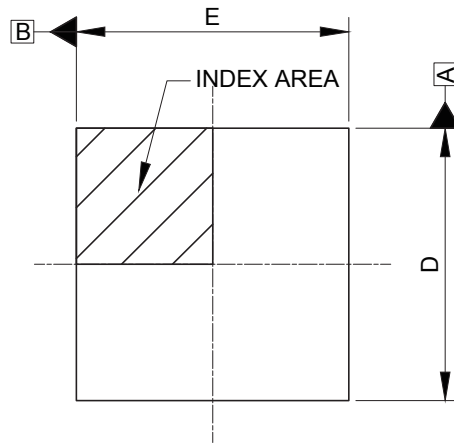


| JEITA Package Code    | RENESAS Code | Previous Code | MASS (Typ) [g] |
|-----------------------|--------------|---------------|----------------|
| P-LFBGA196-12x12-0.80 | PLBG0196GA-B | —             | 0.42           |

Unit: mm



| Reference Symbol | Dimensions in millimeters |       |       |
|------------------|---------------------------|-------|-------|
|                  | Min                       | Nom   | Max   |
| D                | 11.92                     | 12.00 | 12.08 |
| E                | 11.92                     | 12.00 | 12.08 |
| A                | —                         | —     | 1.60  |
| A <sub>1</sub>   | 0.35                      | 0.40  | 0.45  |
| e                | —                         | 0.80  | —     |
| b                | 0.45                      | 0.50  | 0.55  |
| x <sub>1</sub>   | —                         | —     | 0.15  |
| x <sub>2</sub>   | —                         | —     | 0.08  |
| y                | —                         | —     | 0.10  |
| y <sub>1</sub>   | —                         | —     | 0.20  |
| n                | —                         | 196   | —     |
| Z <sub>D</sub>   | —                         | 0.80  | —     |
| Z <sub>E</sub>   | —                         | 0.80  | —     |