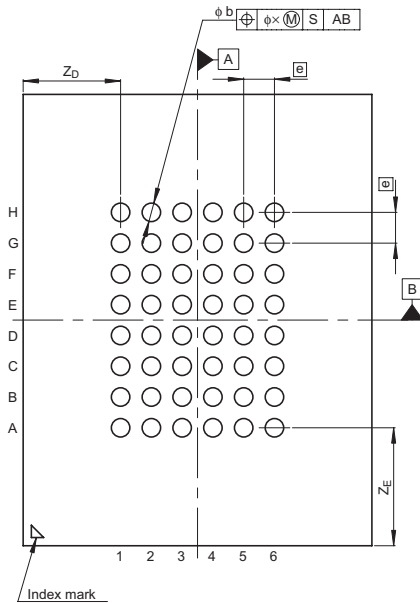
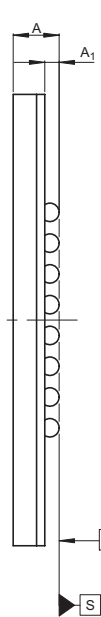
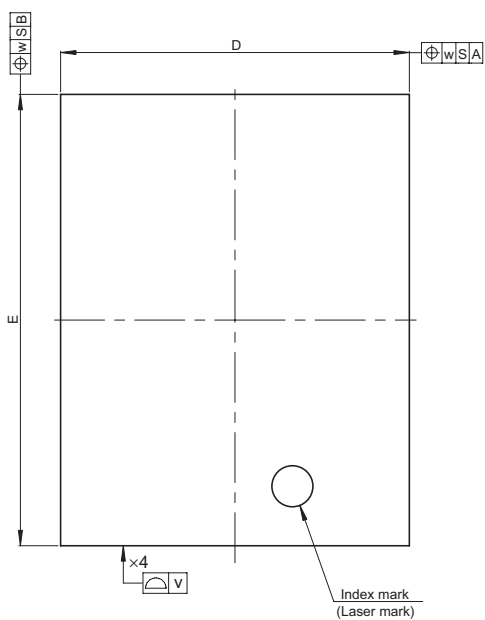


| | | | |
|-----------------------|--------------|---------------|------------|
| JEITA Package Code | RENESAS Code | Previous Code | MASS[Typ.] |
| P-TFBGA48-8.5x11-0.75 | PTBG0048HG-A | 48FHK | 0.2g |



| Reference Symbol | Dimension in Millimeters | | |
|------------------|--------------------------|-------|------|
| | Min | Nom | Max |
| D | — | 8.5 | — |
| E | — | 11.0 | — |
| v | — | — | 0.15 |
| w | — | — | 0.2 |
| A | — | — | 1.2 |
| A ₁ | 0.3 | 0.35 | 0.4 |
| e | — | 0.75 | — |
| b | 0.4 | 0.45 | 0.5 |
| x | — | — | 0.08 |
| y | — | — | 0.1 |
| Z _D | — | 2.375 | — |
| Z _E | — | 2.875 | — |