

## JOD53 Series Material Declaration

Total Weight: 61,09 mg  
Size: 5.0 x 3.2 x 1.2 mm



RoHS compliant



Pb free



REACH compliant



| Part         | Weight of parts (mg) | Content substance |                      | CAS No                         | Content (mg) | Content (wt%) |       |
|--------------|----------------------|-------------------|----------------------|--------------------------------|--------------|---------------|-------|
| Base         | 52.4                 | Ceramic           | Aluminium oxide      | Al <sub>2</sub> O <sub>3</sub> | 1344-28-1    | 35,37         | 57,90 |
|              |                      |                   | Quartz               | SiO <sub>2</sub>               | 7631-86-9    | 1,73          | 2,83  |
|              |                      |                   | Calcium oxide        | CaO                            | 1305-78-8    | 0,25          | 0,41  |
|              |                      |                   | Magnesium oxide      | MgO                            | 1309-48-4    | 0,23          | 0,38  |
|              |                      |                   | Chromium oxide       | Cr <sub>2</sub> O <sub>3</sub> | 1308-38-9    | 0,27          | 0,44  |
|              |                      |                   | Molybdenum           | Mo                             | 7439-98-7    | 0,57          | 0,93  |
|              |                      |                   | Tungsten             | W                              | 7440-33-7    | 6,68          | 10,94 |
|              |                      |                   | Nickel               | Ni                             | 7440-02-0    | 2,17          | 3,55  |
|              |                      |                   | Cobalt               | Co                             | 7440-48-4    | 0,99          | 1,62  |
|              |                      |                   | Gold                 | Au                             | 7440-57-5    | 0,30          | 0,49  |
|              |                      |                   | Iron                 | Fe                             | 7439-89-6    | 2,44          | 4,00  |
|              |                      |                   | Silver               | Ag                             | 7440-22-4    | 1,19          | 1,95  |
|              |                      |                   | Copper               | Cu                             | 7440-50-8    | 0,21          | 0,34  |
| Lid          | 6.65                 | Kovar             | Iron                 | Fe                             | 7439-89-6    | 3,59          | 5,88  |
|              |                      |                   | Nickel               | Ni                             | 7440-02-0    | 1,86          | 3,05  |
|              |                      |                   | Cobalt               | Co                             | 7440-48-4    | 1,20          | 1,96  |
| Plating      | 0.74                 | Plating           | Nickel               | Ni                             | 7440-02-0    | 0,74          | 1,21  |
| Blank        | 0.92                 | Quartz Crystal    | Quartz               | SiO <sub>2</sub>               | 14808-60-7   | 0,92          | 1,51  |
| Electrode    | 0.02                 | Metal             | Silver               | Ag                             | 7440-22-4    | 0,03          | 0,05  |
| Adhesive     | 0.06                 | Adhesive          | Silicon              | Si                             | 7440-21-3    | 0,009         | 0,01  |
|              |                      |                   | Silver               | Ag                             | 7440-22-4    | 0,051         | 0,08  |
| Au Wire      | 0.03                 | Metal             | Gold                 | Au                             | 7440-57-5    | 0,03          | 0,05  |
| IC Die       | 0.15                 | IC Die            | Silicon              | Si                             | 7440-21-3    | 0,15          | 0,25  |
| Die Adhesive | 0.11                 | Adhesive          | Silver               | Ag                             | 7440-22-4    | 0,08          | 0,13  |
|              |                      |                   | Modified Epoxy Resin | Epoxy Resin                    | 9003-36-5    | 0,01          | 0,02  |
|              |                      |                   | Epoxy resin F type   | Epoxy Resin                    | 28064-14-4   | 0,01          | 0,02  |
|              |                      |                   | Epoxy resin F type   | Epoxy Resin                    | 25068-38-6   | 0,01          | 0,01  |