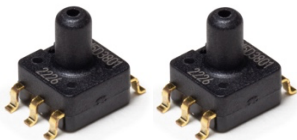


# MATERIAL DECLARATION SHEET

**BOURNS®**

|                 |                 |     |         |                                                                                     |
|-----------------|-----------------|-----|---------|-------------------------------------------------------------------------------------|
| Material Number | BPS160/ BPS170  |     |         |  |
| Product Line    | Pressure Sensor |     |         |                                                                                     |
| Compliance Date | April 11, 2024  |     |         |                                                                                     |
| RoHS Compliant  | Yes             | MSL | Level 3 |                                                                                     |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material\ Substances | CAS No if applicable | Materials Mass % | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------|---------------------|----------------------------------|----------------------|------------------|-------------------------------|
| 1   | MEMS Die                      | Die                  | 0.01                | Silicon                          | 7440-21-3            | 99.6392          | 0.9                           |
|     |                               |                      |                     | Silicon Dioxide                  | 60676-86-0           | 0.10             |                               |
|     |                               |                      |                     | Silicon Nitride                  | 12033-89-5           | 0.10             |                               |
|     |                               |                      |                     | Aluminum                         | 7429-90-5            | 0.16             |                               |
|     |                               |                      |                     | Copper                           | 7440-50-8            | 0.0008           |                               |
| 2   | ASIC Die                      | Die                  | 0.000395            | Silicon                          | 7440-21-3            | 97.01            | 0.1                           |
|     |                               |                      |                     | Silicon Dioxide                  | 7631-86-9            | 1.80             |                               |
|     |                               |                      |                     | Silicon Nitride                  | 12033-89-5           | 0.18             |                               |
|     |                               |                      |                     | Aluminum                         | 7429-90-5            | 0.28             |                               |
|     |                               |                      |                     | Titanium                         | 7440-32-6            | 0.08             |                               |
|     |                               |                      |                     | Tungsten                         | 7440-33-7            | 0.15             |                               |
| 3   | LEAD FRAME<br>COPPER ALLOY    | Cu-Fe Alloy          | 0.16983             | Polyimide                        | 60842-76-4           | 0.50             | 58                            |
|     |                               |                      |                     | Copper                           | 7440-50-8            | 97%              |                               |
|     |                               |                      |                     | Iron                             | 7439-89-6            | 3%               |                               |

# MATERIAL DECLARATION SHEET

**BOURNS®**

|   |                  |                 |         |                                |             |     |     |
|---|------------------|-----------------|---------|--------------------------------|-------------|-----|-----|
|   |                  | Gold            | 0.00017 | Gold                           | 7440-57-5   | 100 |     |
| 4 | Plastic Housing  | PA9T            | 0.10    | PA9T                           | 169284-22-4 | 43  | 35  |
|   |                  |                 |         | Glass fiber                    | 65997-17-3  | 34  |     |
|   |                  |                 |         | brominated polystyrene         | 88497-56-7  | 23  |     |
|   |                  |                 |         |                                |             |     |     |
| 5 | Plastic Lid      | polyamide resin | 0.019   | Polyimide                      | 58698-66-1  | 60  | 5   |
|   |                  |                 |         | Glass fiber                    | 65997-17-3  | 30  |     |
|   |                  |                 |         | Aluminum hydroxide oxide       | 24623-77-6  | 3   |     |
|   |                  |                 |         |                                |             |     |     |
| 6 | Gold Wire        | Gold            | 0.001   | Gold                           | 7440-57-5   | 100 | 0.1 |
| 7 | Bonding material | Epoxy           | 0.001   | Calcium carbonate              | 471-34-1    | 60  | 0.1 |
|   |                  |                 |         | Epoxy resin                    | 25085-99-8  | 30  |     |
|   |                  |                 |         | Substituted propane derivative | 2295-06-9   | 10  |     |
|   |                  |                 |         | Talc                           | 14807-96-6  | 5   |     |
| 8 | Potting          | Silicone        | 0.001   | Silicone                       | 68083-14-7  | 100 | 0.1 |
|   |                  | Total Weight    | 0.303   |                                |             |     |     |

**This Document was updated on: 4/11/24**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.