

520 PARK EAST BLVD  
NEW ALBANY IN 47150-7251  
UNITED STATES  
Tel.: 8007268329 Fax: 8129485047  
Toll Free: 1-800-SAMTEC-9 (USA & Canada)  
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## Part Composition Analysis: QSE-040-01-L-D-A

**Mass: 1.12451g**

### Body Material

|                             |                        |
|-----------------------------|------------------------|
| <b>Material:</b>            | Vectra E-130i          |
| <b>Mass:</b>                | 0.73200g               |
| <b>% of Total:</b>          | 65.09%                 |
| <b>PPM:</b>                 | 650950                 |
| <b>MSDS Identification:</b> | Liquid Crystal Polymer |

**Note:** This information is proprietary to Ticona Division of Celanese Chemical.

### Pin Material

|                             |                 |
|-----------------------------|-----------------|
| <b>Material:</b>            | Phosphor Bronze |
| <b>Mass:</b>                | 0.26400g        |
| <b>% of Total:</b>          | 23.48%          |
| <b>PPM:</b>                 | 234769          |
| <b>CAS Number:</b>          |                 |
| <b>MSDS Identification:</b> |                 |

| Constituents of Material |          |           |        |           |
|--------------------------|----------|-----------|--------|-----------|
| Material                 | Mass     | % of Mat. | PPM    | CAS       |
| Copper                   | 0.25027g | 94.80     | 222559 | 7440-50-8 |
| Phosphorous              | 0.00053g | 0.20      | 471    | 7723-14-0 |
| Tin                      | 0.01320g | 5         | 11738  | 7440-31-5 |

### Plating Material

|                             |                     |
|-----------------------------|---------------------|
| <b>Material:</b>            | Nickel Underplating |
| <b>Mass:</b>                | 0.00660g            |
| <b>% of Total:</b>          | 0.59%               |
| <b>PPM:</b>                 | 5869                |
| <b>CAS Number:</b>          | 7440-02-0           |
| <b>MSDS Identification:</b> | Elemental Nickel    |

| Constituents of Material |          |           |      |           |
|--------------------------|----------|-----------|------|-----------|
| Material                 | Mass     | % of Mat. | PPM  | CAS       |
| Nickel                   | 0.00660g | 100       | 5869 | 7440-02-0 |

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Material:</b>            | Gold Contact / Tin Tail (15/85) |
| <b>Mass:</b>                | 0.00211g                        |
| <b>% of Total:</b>          | 0.19%                           |
| <b>PPM:</b>                 | 1876                            |
| <b>CAS Number:</b>          |                                 |
| <b>MSDS Identification:</b> |                                 |

| Constituents of Material |          |           |      |           |
|--------------------------|----------|-----------|------|-----------|
| Material                 | Mass     | % of Mat. | PPM  | CAS       |
| Gold                     | 0.00032g | 15.17     | 285  | 7440-57-5 |
| Tin                      | 0.00180g | 85.31     | 1601 | 7440-31-5 |

## Part Option Material

|                             |                 |
|-----------------------------|-----------------|
| <b>Option:</b>              | Ground Plane    |
| <b>Material:</b>            | Phosphor Bronze |
| <b>Mass:</b>                | 0.11980g        |
| <b>% of Total:</b>          | 10.65%          |
| <b>PPM:</b>                 | 106535          |
| <b>CAS Number:</b>          |                 |
| <b>MSDS Identification:</b> |                 |

| Constituents of Material |          |           |        |           |
|--------------------------|----------|-----------|--------|-----------|
| Material                 | Mass     | % of Mat. | PPM    | CAS       |
| Copper                   | 0.11357g | 94.80     | 100995 | 7440-50-8 |
| Phosphorous              | 0.00024g | 0.20      | 213    | 7723-14-0 |
| Tin                      | 0.00599g | 5         | 5327   | 7440-31-5 |

## Compliance List

- ELV-Vehicle Directive (Directive 2000/53/EC)
- European Union Directive (2003/11/EC) (Product Only)
- Halogen Free per IEC-61249-2.21 : 2003
- RoHS Directive 2011/65/EU (Compliance revised June 2011)
- WEEE Directive (2012/19/EU) (Product only) Revised August 2012

This material declaration is an average of significant component weights of the product or product series listed above. The information provided is based upon technical data believed to be reliable and is subject to change as additional data is gained. It is important to note that the substance composition of Samtec products is part specific. A valid Samtec part number is required in order to obtain a product material declaration.