

MATERIAL DECLARATION SHEET



| | | | | |
|-----------------|------------------------------|-----|----------------|--|
| Material Number | PTVS6-058C-TH | | | |
| Product Line | Semiconductor Products | | | |
| Compliance Date | August 31 st 2013 | | | |
| RoHS Compliant | Yes | MSL | Not Applicable | |

| No. | Construction Element (subpart) | Homogenous Material | Material Weight (g) | Homogenous Material/ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart Mass % of total unit wt. |
|-----|--------------------------------|---------------------|---------------------|---------------------------------|---------------------|------------------|-----------------------------------|----------------------------------|
| 1 | Encapsulation | Epoxy Resin | 0.365000 | Bisphenol Epoxy Resin | 1675-54-3 | 40.00 | 6.62 | 16.54 |
| | | | | Epoxy Resin | 25085-99-8 | 20.00 | 3.31 | |
| | | | | Crystalline Silica | 14464-46-1 | 23.00 | 3.80 | |
| | | | | Brominated Epoxy Resin | 40039-93-8 | 12.00 | 1.98 | |
| | | | | Iron Oxide | 51274-00-1 | 2.00 | 0.33 | |
| | | | | Titanium Oxide | 13463-67-7 | 3.00 | 0.50 | |
| 2 | Electrodes | Copper | 1.083616 | Copper | 7440-50-8 | 99.10 | 48.66 | 49.11 |
| | | | | Silver | 7440-22-4 | 0.40 | 0.20 | |
| | | | | Other | - | 0.50 | 0.25 | |
| 3 | Terminations | Copper | 0.502942 | Copper | 7440-50-8 | 99.50 | 22.68 | 22.79 |
| | | | | Other | - | 0.50 | 0.11 | |
| 4 | Termination Finish | Silver | 0.002178 | Silver | 7440-22-4 | 100.00 | 0.10 | 0.10 |
| 5 | Chip | Silicon Die | 0.106519 | Silicon | 7440-21-3 | 70.71 | 3.41 | 4.83 |
| | | | | Aluminium | 7429-90-5 | 10.25 | 0.49 | |
| | | | | Nickel | 7440-02-0 | 18.16 | 0.88 | |
| | | | | Gold | 7440-57-5 | 0.88 | 0.04 | |
| 6 | Die Attach | Solder | 0.073483 | Lead | 7439-92-1 | 92.50 | 3.08 | 3.33 |
| | | | | Tin | 7440-31-5 | 5.00 | 0.17 | |
| | | | | Silver | 7440-22-4 | 2.50 | 0.08 | |
| 7 | Die Coating | Silicone | 0.072962 | Polysiloxane | 63148-62-9 | 22.11 | 0.73 | 3.31 |
| | | | | Chromium Sesquioxide | 1308-38-9 | 5.67 | 0.19 | |
| | | | | Fumed Silica | 112945-52-5 | 11.11 | 0.37 | |
| | | | | Filler | Trade Secret | 61.11 | 2.02 | |
| | | Total Weight | 2.206700 | | | | | |