



# Apex Microtechnology

## Materials Substance Report

**Model:** VRE102C

**Print Time:** 9/19/2013 9:57:32 AM

**RoHS Compliant:** Yes

**Lead Free:** No

<b>Bonding Island Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Capacitor Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	6.00E-6
Epoxy	7.90E-5
Gold	2.93E-6
Silica	1.01E-4
Silicon	2.25E-3
Silver	9.85E-5
<b>Encapsulant Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Frame Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Header Substances</b>	<b>Total Weight (g)</b>
Alumina	1.68E+0
Aluminum	2.14E-4
Carbon	7.15E-6
Chromium	3.60E-4
Cobalt	9.51E-2
Gold	1.96E-2
Iron	3.74E-1
Manganese	2.80E-3
Nickel	2.33E-1
Phosphorous	3.57E-5
Silica	1.14E-3
Sulfur	3.57E-5
<b>Lead Frame Substances</b>	<b>Total Weight (g)</b>
NONE	N/A



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### Lid Substances

	<b>Total Weight (g)</b>
Cobalt	6.78E-2
Iron	2.13E-1
Manganese	1.20E-3
Nickel	1.30E-1
Phosphorous	1.20E-3
Silicon	7.97E-4

### Pin Substances

	<b>Total Weight (g)</b>
NONE	N/A

### Silicone Substances

	<b>Total Weight (g)</b>
Alumina	1.30E-2
Thermoplastic Resin	5.50E-3

### Solder Substances

	<b>Total Weight (g)</b>
NONE	N/A

### Substrate Substances

	<b>Total Weight (g)</b>
Alumina	2.48E-1
Calcium Oxide	5.20E-4
Iron Oxide	2.60E-4
Manganese Oxide	2.10E-3
Silica	7.20E-3

### Thickfilm Substances

	<b>Total Weight (g)</b>
Cadmium Oxide	4.37E-6
Glass	1.41E-3
Gold	7.11E-4
Lead Oxide	2.80E-5

### Wire Substances

	<b>Total Weight (g)</b>
Aluminum	1.06E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Alumina	1.94E+0
Aluminum	3.26E-4
Cadmium Oxide	4.37E-6
Calcium Oxide	5.20E-4
Carbon	7.15E-6
Chromium	3.60E-4
Cobalt	1.63E-1
Epoxy	7.90E-5
Glass	1.41E-3
Gold	2.03E-2
Iron	5.87E-1
Iron Oxide	2.60E-4
Lead Oxide	2.80E-5
Manganese	4.00E-3
Manganese Oxide	2.10E-3
Nickel	3.63E-1
Phosphorous	1.24E-3
Silica	8.44E-3
Silicon	3.04E-3
Silver	9.85E-5
Sulfur	3.57E-5
Thermoplastic Resin	5.50E-3

**Sum of All Substances Present in This Model (g)** 3.10E+0