



# Apex Microtechnology Materials Substance Report

**Model:** VRE3025-8JS

**Print Time:** 9/19/2013 10:04:01 AM

**RoHS Compliant:** No

**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	7.02E-6
Epoxy	5.31E-5
Gold	4.96E-6
Silicon	1.90E-3
Silver	1.66E-4
<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>
NONE	N/A
<b>Lead Frame Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Lid Substances</b>	<b>Total Weight (g)</b>
Alumina	2.42E-1
Calcium Oxide	1.30E-3
Iron Oxide	2.70E-3
Manganese Oxide	5.40E-3
Silica	8.10E-3
Titanium Oxide	9.40E-3



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### Pin Substances

	<b>Total Weight (g)</b>
Aluminum	9.60E-5
Carbon	3.20E-5
Chromium	3.20E-5
Cobalt	6.38E-4
Iron	3.52E-2
Manganese	5.12E-4
Nickel	2.80E-2
Phosphorous	1.60E-5
Silicon	1.91E-4
Silver	9.60E-4
Sulfur	1.60E-5
Tin	2.53E-2

### Silicone Substances

	<b>Total Weight (g)</b>
Epoxy	3.60E-2
Magnesium Silicate Hydrous	1.80E-2
Silica	1.80E-2

### Solder Substances

	<b>Total Weight (g)</b>
Lead	1.60E-2
Tin	1.92E-2

### Substrate Substances

	<b>Total Weight (g)</b>
Alumina	2.18E-1
Calcium Oxide	1.20E-3
Iron Oxide	2.40E-3
Manganese Oxide	4.90E-3
Silica	7.30E-3
Titanium Oxide	8.50E-3

### Thickfilm Substances

	<b>Total Weight (g)</b>
Cadmium Oxide	2.15E-5
Glass	2.69E-3
Gold	6.69E-4
Lead Oxide	5.29E-5
Silver	5.64E-3



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## Wire Substances

Gold

**Total Weight (g)**

1.49E-4

## Substances Present in This Model

### Substance

Alumina

Aluminum

Cadmium Oxide

Calcium Oxide

Carbon

Chromium

Cobalt

Epoxy

Glass

Gold

Iron

Iron Oxide

Lead

Lead Oxide

Magnesium Silicate Hydrous

Manganese

Manganese Oxide

Nickel

Phosphorous

Silica

Silicon

Silver

Sulfur

Tin

Titanium Oxide

**Total Weight (g)**

4.60E-1

1.03E-4

2.15E-5

2.50E-3

3.20E-5

3.20E-5

6.38E-4

3.61E-2

2.69E-3

8.23E-4

3.52E-2

5.10E-3

1.60E-2

5.29E-5

1.80E-2

5.12E-4

1.03E-2

2.80E-2

1.60E-5

3.34E-2

2.09E-3

6.77E-3

1.60E-5

4.45E-2

1.79E-2

**Sum of All Substances Present in This Model (g)** 7.21E-1