



# Apex Microtechnology Materials Substance Report

**Model:** VRE210M

**Print Time:** 9/19/2013 10:01:14 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	3.66E-6
Epoxy	2.70E-5
Gold	2.93E-6
Silica	2.85E-5
Silicon	8.70E-4
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	4.40E-1
Aluminum	8.24E-7
Calcium Oxide	5.50E-6
Carbon	2.80E-8
Chromium	1.37E-6
Cobalt	2.91E-2
Gold	1.04E-3
Iron	9.20E-2
Manganese	5.20E-4
Nickel	5.10E-2
Phosphorous	1.40E-7
Silica	3.54E-5
Sulfur	1.37E-7
<b>Lead Frame Substances</b>	<b>Total Weight (g)</b>



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NONE

N/A

### Lid Substances

### Total Weight (g)

Cobalt

3.00E-2

Gold

2.80E-3

Iron

9.40E-2

Manganese

5.30E-4

Nickel

5.30E-2

Silicon

3.50E-4

### Pin Substances

### Total Weight (g)

NONE

N/A

### Silicone Substances

### Total Weight (g)

Alumina

6.20E-3

Thermoplastic Resin

2.50E-3

### Solder Substances

### Total Weight (g)

NONE

N/A

### Substrate Substances

### Total Weight (g)

Alumina

7.60E-2

Calcium Oxide

1.58E-4

Iron Oxide

7.90E-5

Manganese Oxide

6.30E-4

Silica

2.20E-3

### Thickfilm Substances

### Total Weight (g)

Cadmium Oxide

1.34E-6

Glass

4.36E-4

Gold

2.18E-4

Lead Oxide

1.13E-5

### Wire Substances

### Total Weight (g)

Aluminum

5.43E-5



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## Substances Present in This Model

Substance	Total Weight (g)
Alumina	5.22E-1
Aluminum	5.88E-5
Cadmium Oxide	1.34E-6
Calcium Oxide	1.63E-4
Carbon	2.80E-8
Chromium	1.37E-6
Cobalt	5.91E-2
Epoxy	2.70E-5
Glass	4.36E-4
Gold	4.06E-3
Iron	1.86E-1
Iron Oxide	7.90E-5
Lead Oxide	1.13E-5
Manganese	1.05E-3
Manganese Oxide	6.30E-4
Nickel	1.04E-1
Phosphorous	1.40E-7
Silica	2.26E-3
Silicon	1.22E-3
Silver	9.85E-5
Sulfur	1.37E-7
Thermoplastic Resin	2.50E-3

**Sum of All Substances Present in This Model (g)** 8.84E-1