



# Apex Microtechnology Materials Substance Report

**Model:** VRE210M-83TR

**Print Time:** 9/19/2013 10:02:52 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	5.23E-6
Epoxy	4.10E-5
Gold	2.93E-6
Silica	4.80E-5
Silicon	1.21E-3
Silver	9.85E-5
Tantalum Oxide	8.20E-7
<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



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**Lead Frame Substances**

NONE

**Total Weight (g)**

N/A

**Lid Substances**

Cobalt

Gold

Iron

Manganese

Nickel

Silicon

**Total Weight (g)**

3.00E-2

2.80E-3

9.40E-2

5.30E-4

5.30E-2

3.50E-4

**Pin Substances**

NONE

**Total Weight (g)**

N/A

**Silicone Substances**

Alumina

Thermoplastic Resin

**Total Weight (g)**

6.20E-3

2.50E-3

**Solder Substances**

Lead

Tin

**Total Weight (g)**

2.03E-3

2.36E-3

**Substrate Substances**

Alumina

Calcium Oxide

Iron Oxide

Manganese Oxide

Silica

**Total Weight (g)**

7.60E-2

1.58E-4

7.90E-5

6.30E-4

2.20E-3

**Thickfilm Substances**

Cadmium Oxide

Glass

Gold

Lead Oxide

**Total Weight (g)**

1.34E-6

4.36E-4

2.18E-4

1.13E-5

**Wire Substances**

Aluminum

**Total Weight (g)**

5.43E-5



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## Substances Present in This Model

Substance	Total Weight (g)
Alumina	5.22E-1
Aluminum	6.03E-5
Cadmium Oxide	1.34E-6
Calcium Oxide	1.63E-4
Carbon	2.80E-8
Chromium	1.37E-6
Cobalt	5.91E-2
Epoxy	4.10E-5
Glass	4.36E-4
Gold	4.06E-3
Iron	1.86E-1
Iron Oxide	7.90E-5
Lead	2.03E-3
Lead Oxide	1.13E-5
Manganese	1.05E-3
Manganese Oxide	6.30E-4
Nickel	1.04E-1
Phosphorous	1.40E-7
Silica	2.28E-3
Silicon	1.56E-3
Silver	9.85E-5
Sulfur	1.37E-7
Tantalum Oxide	8.20E-7
Thermoplastic Resin	2.50E-3
Tin	2.36E-3

**Sum of All Substances Present in This Model (g)** 8.89E-1