



Apex Microtechnology

Materials Substance Report

Model: VRE204MA

Print Time: 9/19/2013 10:00:01 AM

RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances

Total Weight (g)

NONE

N/A

Capacitor Substances

Total Weight (g)

NONE

N/A

Die Substances

Total Weight (g)

Aluminum

5.73E-6

Epoxy

4.31E-5

Gold

3.89E-6

Silica

6.75E-5

Silicon

1.63E-3

Silver

1.31E-4

Tantalum Nitride

1.98E-7

Tantalum Oxide

8.20E-7

Encapsulant Substances

Total Weight (g)

NONE

N/A

Frame Substances

Total Weight (g)

NONE

N/A

Header Substances

Total Weight (g)

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

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

NONE

Total Weight (g)

N/A

Silicone Substances

Alumina

6.20E-3

Thermoplastic Resin

2.50E-3

Solder Substances

NONE

Total Weight (g)

N/A

Substrate Substances

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

Cadmium Oxide

1.40E-6

Glass

4.47E-4

Gold

2.18E-4

Lead Oxide

1.30E-5

Wire Substances

Aluminum

Total Weight (g)

6.24E-5



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Substances Present in This Model

Substance	Total Weight (g)
Alumina	5.22E-1
Aluminum	6.90E-5
Cadmium Oxide	1.40E-6
Calcium Oxide	1.63E-4
Carbon	2.80E-8
Chromium	1.37E-6
Cobalt	5.91E-2
Epoxy	4.31E-5
Glass	4.47E-4
Gold	4.06E-3
Iron	1.86E-1
Iron Oxide	7.90E-5
Lead Oxide	1.30E-5
Manganese	1.05E-3
Manganese Oxide	6.30E-4
Nickel	1.04E-1
Phosphorous	1.40E-7
Silica	2.30E-3
Silicon	1.98E-3
Silver	1.31E-4
Sulfur	1.37E-7
Tantalum Nitride	1.98E-7
Tantalum Oxide	8.20E-7
Thermoplastic Resin	2.50E-3

Sum of All Substances Present in This Model (g) 8.85E-1