



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

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

NONE

Total Weight (g)

N/A

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)

1.40E-6

4.47E-4

2.18E-4

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