



# Apex Microtechnology Materials Substance Report

**Model:** SA01

**Print Time:** 9/19/2013 9:34:44 AM

**RoHS Compliant:** Yes

**Lead Free:** No

<b>Bonding Island Substances</b>	<b>Total Weight (g)</b>
Aluminum	1.06E-2
Copper	1.12E-1

  

<b>Capacitor Substances</b>	<b>Total Weight (g)</b>
Barium Titanate	1.43E-1
Bismuth Titanate	8.44E-3
Calcium Zirconate	8.44E-3
Manganese Oxide	8.44E-3
Nickel	1.69E-3
Palladium	1.58E-3
Silica	8.44E-3
Silver	3.01E-2
Tin	4.22E-4

  

<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	2.96E-4
Chromium	6.13E-5
Epoxy	8.77E-5
Gold	1.00E-4
Nickel	2.33E-4
Silicon	1.04E-1
Silver	4.15E-3
Tin	3.56E-2
Titanium	2.07E-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



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### Header Substances

	<b>Total Weight (g)</b>
Aluminum	2.43E-3
Barium Oxide	2.02E-1
Carbon	2.54E-2
Chromium	2.43E-3
Cobalt	2.43E-3
Iron	2.52E+1
Manganese	1.14E-1
Nickel	1.23E+0
Phosphorous	1.04E-2
Silica	2.15E-1
Silicon	7.30E-3
Sulfur	1.21E-2

### Lead Frame Substances

	<b>Total Weight (g)</b>
NONE	N/A

### Lid Substances

	<b>Total Weight (g)</b>
Carbon	1.50E-2
Copper	2.50E-2
Iron	4.00E-2
Manganese	3.50E-2
Nickel	9.94E+0
Silicon	3.50E-2
Sulfur	1.00E-3

### Pin Substances

	<b>Total Weight (g)</b>
NONE	N/A

### Silicone Substances

	<b>Total Weight (g)</b>
NONE	N/A

### Solder Substances

	<b>Total Weight (g)</b>
Silver	1.03E-2
Tin	2.85E-1



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**Substrate Substances**

Beryllium Oxide

**Total Weight (g)**

1.44E+0

**Thickfilm Substances**

Cadmium Oxide

Glass

Gold

Lead Oxide

Silver

**Total Weight (g)**

1.87E-4

2.73E-2

5.86E-3

2.24E-4

4.94E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

3.44E-3



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.67E-2
Barium Oxide	2.02E-1
Barium Titanate	1.43E-1
Beryllium Oxide	1.44E+0
Bismuth Titanate	8.44E-3
Cadmium Oxide	1.87E-4
Calcium Zirconate	8.44E-3
Carbon	4.04E-2
Chromium	2.49E-3
Cobalt	2.43E-3
Copper	1.37E-1
Epoxy	8.77E-5
Glass	2.73E-2
Gold	5.96E-3
Iron	2.52E+1
Lead Oxide	2.24E-4
Manganese	1.49E-1
Manganese Oxide	8.44E-3
Nickel	1.12E+1
Palladium	1.58E-3
Phosphorous	1.04E-2
Silica	2.23E-1
Silicon	1.46E-1
Silver	9.39E-2
Sulfur	1.31E-2
Tin	3.21E-1
Titanium	2.07E-7

**Sum of All Substances Present in This Model (g)** 3.94E+1