



# Apex Microtechnology Materials Substance Report

**Model:** SA50CE

**Print Time:** 9/19/2013 9:45:38 AM

**RoHS Compliant:** No

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

Barium Titanate

4.94E-2

Bismuth Titanate

2.90E-3

Calcium Zirconate

2.90E-3

Manganese Oxide

2.90E-3

Nickel

5.81E-4

Palladium

5.45E-4

Silica

2.60E-3

Silicon

3.04E-4

Silver

1.03E-2

Tin

1.45E-4

**Die Substances**

**Total Weight (g)**

Aluminum

7.75E-5

Chromium

1.17E-5

Epoxy

2.77E-5

Gold

2.13E-5

Nickel

4.58E-5

Silicon

2.24E-2

Silver

9.13E-4

Tin

9.65E-3

Titanium

1.24E-6

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

NONE

N/A



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### Header Substances

	Total Weight (g)
Aluminum	8.65E-4
Barium Oxide	1.26E-1
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Iron	1.09E+1
Manganese	4.85E-2
Nickel	4.38E-1
Phosphorous	4.46E-3
Silica	1.34E-1
Silicon	2.60E-3
Sulfur	5.28E-3

### Lead Frame Substances

	Total Weight (g)
NONE	N/A

### Lid Substances

	Total Weight (g)
Nickel	1.86E+0

### Pin Substances

	Total Weight (g)
NONE	N/A

### Silicone Substances

	Total Weight (g)
NONE	N/A

### Solder Substances

	Total Weight (g)
Lead	2.30E-2
Silver	3.57E-3
Tin	1.38E-1

### Substrate Substances

	Total Weight (g)
Beryllium Oxide	8.00E-1



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### **Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

### **Total Weight (g)**

1.07E-4  
1.58E-2  
3.35E-3  
2.53E-4  
2.82E-2

### **Wire Substances**

Aluminum

### **Total Weight (g)**

1.32E-3



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	2.27E-3
Barium Oxide	1.26E-1
Barium Titanate	4.94E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	2.90E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	2.90E-3
Carbon	1.10E-2
Chromium	8.77E-4
Cobalt	8.65E-4
Epoxy	2.77E-5
Glass	1.58E-2
Gold	3.37E-3
Iron	1.09E+1
Lead	2.30E-2
Lead Oxide	2.53E-4
Manganese	4.85E-2
Manganese Oxide	2.90E-3
Nickel	2.30E+0
Palladium	5.45E-4
Phosphorous	4.46E-3
Silica	1.37E-1
Silicon	2.53E-2
Silver	4.30E-2
Sulfur	5.28E-3
Tin	1.47E-1
Titanium	1.24E-6
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.47E+1</b>