



# Apex Microtechnology Materials Substance Report

**Model:** PA04

**Print Time:** 9/19/2013 9:07:37 AM

**RoHS Compliant:** Yes

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

Barium Titanate

1.50E-2

Bismuth Titanate

8.80E-4

Calcium Zirconate

8.80E-4

Manganese Oxide

8.80E-4

Nickel

1.76E-4

Palladium

1.65E-4

Silica

8.80E-4

Silver

3.13E-3

Tin

4.40E-5

**Die Substances**

**Total Weight (g)**

Aluminum

2.81E-4

Chromium

6.45E-5

Epoxy

8.24E-5

Gold

3.67E-5

Nickel

2.57E-4

Silicon

9.36E-2

Silver

2.90E-3

Tin

3.57E-2

Titanium

7.24E-7

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

NONE

N/A



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### Header Substances

	<b>Total Weight (g)</b>
Aluminum	5.19E-3
Barium Oxide	1.80E-1
Carbon	3.65E-2
Chromium	5.19E-3
Cobalt	2.60E-2
Iron	3.62E+1
Manganese	1.70E-1
Nickel	2.62E+0
Phosphorous	1.50E-2
Silica	1.91E-1
Silicon	1.56E-2
Sulfur	2.00E-2

### Lead Frame Substances

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

### Lid Substances

	<b>Total Weight (g)</b>
Carbon	1.49E-2
Copper	2.48E-2
Iron	3.98E-2
Manganese	3.48E-2
Nickel	9.88E+0
Silicon	3.48E-2
Sulfur	9.94E-4

### 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	2.19E-2
Tin	6.05E-1



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**Substrate Substances**

Beryllium Oxide

**Total Weight (g)**

2.67E+0

**Thickfilm Substances**

Cadmium Oxide

Glass

Gold

Lead Oxide

Silver

**Total Weight (g)**

3.61E-4

5.31E-2

1.13E-2

7.12E-4

9.52E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

1.92E-3



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	7.39E-3
Barium Oxide	1.80E-1
Barium Titanate	1.50E-2
Beryllium Oxide	2.67E+0
Bismuth Titanate	8.80E-4
Cadmium Oxide	3.61E-4
Calcium Zirconate	8.80E-4
Carbon	5.14E-2
Chromium	5.25E-3
Cobalt	2.60E-2
Copper	2.48E-2
Epoxy	8.24E-5
Glass	5.31E-2
Gold	1.13E-2
Iron	3.62E+1
Lead Oxide	7.12E-4
Manganese	2.05E-1
Manganese Oxide	8.80E-4
Nickel	1.25E+1
Palladium	1.65E-4
Phosphorous	1.50E-2
Silica	1.92E-1
Silicon	1.44E-1
Silver	1.23E-1
Sulfur	2.10E-2
Tin	6.41E-1
Titanium	7.24E-7

**Sum of All Substances Present in This Model (g)** 5.31E+1