



# Apex Microtechnology Materials Substance Report

**Model:** PA84M

**Print Time:** 9/19/2013 9:26:20 AM

**RoHS Compliant:** No

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

Barium Titanate

2.99E-2

Bismuth Titanate

1.76E-3

Calcium Zirconate

1.76E-3

Gold

8.80E-5

Manganese Oxide

1.76E-3

Nickel

3.52E-4

Palladium

1.65E-4

Platinum

1.65E-4

Silica

1.76E-3

Silver

6.26E-3

**Die Substances**

**Total Weight (g)**

Aluminum

2.42E-5

Epoxy

5.91E-5

Gold

2.25E-5

Silicon

4.94E-3

Silver

1.04E-3

Tin

1.61E-3

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

NONE

N/A



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## Materials Substance Report

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### Header Substances

	<b>Total Weight (g)</b>
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

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

### Lid Substances

	<b>Total Weight (g)</b>
Nickel	1.86E+0

### 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>
Lead	2.30E-2
Silver	3.57E-3
Tin	1.38E-1

### Substrate Substances

	<b>Total Weight (g)</b>
Beryllium Oxide	8.00E-1



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**Thickfilm Substances**

Cadmium Oxide	1.07E-4
Glass	7.93E-3
Gold	3.35E-3
Lead Oxide	2.06E-4
Silver	2.82E-2

**Total Weight (g)**

**Wire Substances**

Aluminum	1.28E-4
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**Total Weight (g)**



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.02E-3
Barium Oxide	1.26E-1
Barium Titanate	2.99E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.76E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	1.76E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	5.91E-5
Glass	7.93E-3
Gold	3.46E-3
Iron	1.09E+1
Lead	2.30E-2
Lead Oxide	2.06E-4
Manganese	4.85E-2
Manganese Oxide	1.76E-3
Nickel	2.30E+0
Palladium	1.65E-4
Phosphorous	4.46E-3
Platinum	1.65E-4
Silica	1.36E-1
Silicon	7.54E-3
Silver	3.91E-2
Sulfur	5.28E-3
Tin	1.39E-1

**Sum of All Substances Present in This Model (g)** 1.46E+1