



# Apex Microtechnology Materials Substance Report

**Model:** PA85M

**Print Time:** 9/19/2013 9:27:13 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

Manganese Oxide

1.76E-3

Palladium

3.52E-4

Silica

1.76E-3

Silver

6.69E-3

**Die Substances**

**Total Weight (g)**

Aluminum

5.22E-5

Epoxy

1.03E-4

Gold

6.60E-5

Nickel

2.54E-5

Silicon

1.18E-2

Silver

1.78E-3

Tin

4.16E-3

Titanium

1.03E-6

**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	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  
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)**

1.49E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.07E-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	1.03E-4
Glass	1.58E-2
Gold	3.41E-3
Iron	1.09E+1
Lead	2.30E-2
Lead Oxide	2.53E-4
Manganese	4.85E-2
Manganese Oxide	1.76E-3
Nickel	2.30E+0
Palladium	3.52E-4
Phosphorous	4.46E-3
Silica	1.36E-1
Silicon	1.44E-2
Silver	4.02E-2
Sulfur	5.28E-3
Tin	1.42E-1
Titanium	1.03E-6

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