



# Apex Microtechnology Materials Substance Report

**Model:** PA10M

**Print Time:** 9/19/2013 9:12:16 AM

**RoHS Compliant:** No

**Lead Free:** No

**Bonding Island Substances**

NONE

**Total Weight (g)**

N/A

**Capacitor Substances**

Barium Titanate

1.50E-2

Bismuth Titanate

8.80E-4

Calcium Zirconate

8.80E-4

Gold

4.40E-5

Magnesium Oxide

8.80E-4

Nickel

1.76E-4

Palladium

1.66E-4

Silica

8.80E-4

Silver

3.20E-3

**Die Substances**

Aluminum

5.75E-5

Chromium

1.72E-5

Epoxy

2.24E-4

Gold

1.01E-4

Nickel

2.13E-5

Silicon

1.49E-2

Silicon Nitride

4.44E-9

Silver

3.41E-3

Tin

1.49E-3

**Encapsulant Substances**

NONE

**Total Weight (g)**

N/A

**Frame Substances**

NONE

**Total Weight (g)**

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)**

1.29E-4  
7.93E-3  
3.35E-3  
1.86E-4  
2.82E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

3.20E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.24E-3
Barium Oxide	1.26E-1
Barium Titanate	1.50E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	8.80E-4
Cadmium Oxide	1.29E-4
Calcium Zirconate	8.80E-4
Carbon	1.10E-2
Chromium	8.82E-4
Cobalt	8.65E-4
Epoxy	2.24E-4
Glass	7.93E-3
Gold	3.49E-3
Iron	1.09E+1
Lead	2.30E-2
Lead Oxide	1.86E-4
Magnesium Oxide	8.80E-4
Manganese	4.85E-2
Nickel	2.30E+0
Palladium	1.66E-4
Phosphorous	4.46E-3
Silica	1.35E-1
Silicon	1.75E-2
Silicon Nitride	4.44E-9
Silver	3.84E-2
Sulfur	5.28E-3
Tin	1.39E-1
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.46E+1</b>