



# Apex Microtechnology Materials Substance Report

**Model:** PA08

**Print Time:** 9/19/2013 9:09:18 AM

**RoHS Compliant:** Yes

**Lead Free:** No

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

<b>Capacitor Substances</b>	<b>Total Weight (g)</b>
Barium Titanate	2.24E-2
Bismuth Titanate	1.32E-3
Calcium Zirconate	1.32E-3
Manganese Oxide	1.32E-3
Nickel	2.64E-4
Palladium	2.48E-4
Silica	1.32E-3
Silver	4.70E-3
Tin	4.40E-5

<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	2.44E-5
Epoxy	5.73E-5
Gold	2.95E-5
Silicon	5.40E-3
Silicon Nitride	4.44E-9
Silver	1.01E-3
Tin	1.69E-3

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

<b>Frame Substances</b>	<b>Total Weight (g)</b>
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>
Silver	3.57E-3
Tin	9.84E-2

### 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  
1.57E-2  
3.35E-3  
2.11E-4  
2.82E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

1.28E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.02E-3
Barium Oxide	1.26E-1
Barium Titanate	2.24E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.32E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	1.32E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	5.73E-5
Glass	1.57E-2
Gold	3.38E-3
Iron	1.09E+1
Lead Oxide	2.11E-4
Manganese	4.85E-2
Manganese Oxide	1.32E-3
Nickel	2.30E+0
Palladium	2.48E-4
Phosphorous	4.46E-3
Silica	1.35E-1
Silicon	8.00E-3
Silicon Nitride	4.44E-9
Silver	3.75E-2
Sulfur	5.28E-3
Tin	1.00E-1
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.45E+1</b>