



# Apex Microtechnology Materials Substance Report

**Model:** PA95

**Print Time:** 9/19/2013 9:31:26 AM

**RoHS Compliant:** Yes

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

Barium Titanate

8.09E-2

Bismuth Titanate

4.76E-3

Calcium Zirconate

4.76E-3

Manganese Oxide

4.76E-3

Nickel

9.52E-4

Palladium

8.93E-4

Silica

4.76E-3

Silver

1.70E-2

Tin

2.38E-4

**Die Substances**

**Total Weight (g)**

Aluminum

3.77E-5

Epoxy

3.18E-5

Gold

2.15E-5

Nickel

2.03E-5

Silicon

8.78E-3

Silver

6.97E-4

Tin

5.91E-3

Titanium

8.27E-7

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

Epoxy

3.20E-2

Glass

9.20E-2

Polymeric Resin

2.16E-1



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**Header Substances**

	<b>Total Weight (g)</b>
Carbon	6.62E-3
Iron	6.58E+0
Manganese	2.72E-2
Nickel	5.78E-2
Phosphorous	2.65E-3
Sulfur	3.31E-3

**Lead Frame Substances**

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

**Lid Substances**

	<b>Total Weight (g)</b>
Glass	1.54E-1
Polymeric Resin	3.60E-1

**Pin Substances**

	<b>Total Weight (g)</b>
Copper	6.02E-1
Nickel	5.76E-3
Phosphorous	1.27E-3
Silver	3.49E-3
Tin	1.45E-1

**Silicone Substances**

	<b>Total Weight (g)</b>
Silicone	4.00E-1

**Solder Substances**

	<b>Total Weight (g)</b>
Silver	6.83E-3
Tin	1.88E-1

**Substrate Substances**

	<b>Total Weight (g)</b>
Beryllium Oxide	1.33E+0



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**Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

**Total Weight (g)**

1.78E-4  
2.66E-2  
5.57E-3  
5.59E-4  
4.69E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

1.55E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.92E-4
Barium Titanate	8.09E-2
Beryllium Oxide	1.33E+0
Bismuth Titanate	4.76E-3
Cadmium Oxide	1.78E-4
Calcium Zirconate	4.76E-3
Carbon	6.62E-3
Copper	6.02E-1
Epoxy	3.20E-2
Glass	2.73E-1
Gold	5.59E-3
Iron	6.58E+0
Lead Oxide	5.59E-4
Manganese	2.72E-2
Manganese Oxide	4.76E-3
Nickel	6.45E-2
Palladium	8.93E-4
Phosphorous	3.92E-3
Polymeric Resin	5.76E-1
Silica	4.76E-3
Silicon	8.78E-3
Silicone	4.00E-1
Silver	7.49E-2
Sulfur	3.31E-3
Tin	3.39E-1
Titanium	8.27E-7
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.04E+1</b>