



# Apex Microtechnology Materials Substance Report

**Model:** PA94

**Print Time:** 9/19/2013 9:31:08 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	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
<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	4.49E-5
Epoxy	9.71E-5
Gold	6.58E-5
Nickel	2.61E-5
Silicon	1.05E-2
Silver	1.64E-3
Tin	5.06E-3
Titanium	3.80E-6
<b>Encapsulant Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Frame Substances</b>	<b>Total Weight (g)</b>
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  
2.62E-2  
5.57E-3  
3.52E-4  
4.69E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

1.44E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.89E-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	3.21E-2
Glass	2.72E-1
Gold	5.63E-3
Iron	6.58E+0
Lead Oxide	3.52E-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	1.05E-2
Silicone	4.00E-1
Silver	7.58E-2
Sulfur	3.31E-3
Tin	3.38E-1
Titanium	3.80E-6
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.04E+1</b>