



# Apex Microtechnology Materials Substance Report

**Model:** PA74

**Print Time:** 9/19/2013 9:22:34 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	1.50E-2
Bismuth Titanate	8.80E-4
Calcium Zirconate	8.80E-4
Manganese Oxide	8.80E-4
Nickel	1.76E-4
Palladium	1.65E-4
Silica	8.80E-4
Silver	3.13E-3
Tin	4.40E-5
<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	4.07E-5
Epoxy	1.96E-4
Gold	2.33E-5
Nickel	2.69E-5
Silicon	1.07E-2
Silver	2.94E-3
Titanium	6.85E-6
<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  
7.78E-3  
3.35E-3  
1.23E-4  
2.82E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

4.40E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.35E-3
Barium Oxide	1.26E-1
Barium Titanate	1.50E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	8.80E-4
Cadmium Oxide	1.07E-4
Calcium Zirconate	8.80E-4
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	1.96E-4
Glass	7.78E-3
Gold	3.37E-3
Iron	1.09E+1
Lead Oxide	1.23E-4
Manganese	4.85E-2
Manganese Oxide	8.80E-4
Nickel	2.30E+0
Palladium	1.65E-4
Phosphorous	4.46E-3
Silica	1.35E-1
Silicon	1.33E-2
Silver	3.78E-2
Sulfur	5.28E-3
Tin	9.85E-2
Titanium	6.85E-6

**Sum of All Substances Present in This Model (g)** 1.45E+1