



# Apex Microtechnology Materials Substance Report

**Model:** PA15FL

**Print Time:** 9/19/2013 9:16:21 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>
NONE	N/A
<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	2.83E-5
Epoxy	9.09E-5
Gold	7.63E-5
Nickel	2.54E-6
Silicon	7.69E-3
Silicon Nitride	4.00E-8
Silver	1.42E-3
Tin	1.70E-3
Titanium	1.03E-7
<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
<b>Header Substances</b>	<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
<b>Lead Frame Substances</b>	<b>Total Weight (g)</b>
NONE	N/A



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**Lid Substances**

Glass  
Polymeric Resin

**Total Weight (g)**

1.54E-1  
3.60E-1

**Pin Substances**

Copper  
Nickel  
Phosphorous  
Silver  
Tin

**Total Weight (g)**

6.02E-1  
5.76E-3  
1.27E-3  
3.49E-3  
1.45E-1

**Silicone Substances**

Silicone

**Total Weight (g)**

4.00E-1

**Solder Substances**

Silver  
Tin

**Total Weight (g)**

6.83E-3  
1.88E-1

**Substrate Substances**

Beryllium Oxide

**Total Weight (g)**

1.33E+0

**Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

**Total Weight (g)**

1.78E-4  
2.62E-2  
5.57E-3  
3.51E-4  
4.69E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

9.77E-5



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.26E-4
Beryllium Oxide	1.33E+0
Cadmium Oxide	1.78E-4
Carbon	6.62E-3
Copper	6.02E-1
Epoxy	3.21E-2
Glass	2.72E-1
Gold	5.64E-3
Iron	6.58E+0
Lead Oxide	3.51E-4
Manganese	2.72E-2
Nickel	6.36E-2
Phosphorous	3.92E-3
Polymeric Resin	5.76E-1
Silicon	7.69E-3
Silicon Nitride	4.00E-8
Silicone	4.00E-1
Silver	5.86E-2
Sulfur	3.31E-3
Tin	3.35E-1
Titanium	1.03E-7
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.03E+1</b>