



# Apex Microtechnology Materials Substance Report

**Model:** PA97DR

**Print Time:** 9/19/2013 9:32:09 AM

**RoHS Compliant:** Yes

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

Barium Titanate

7.48E-3

Bismuth Titanate

4.40E-4

Calcium Zirconate

4.40E-4

Manganese Oxide

4.40E-4

Palladium

8.80E-5

Silica

4.40E-4

Silver

1.67E-3

**Die Substances**

**Total Weight (g)**

Aluminum

3.37E-5

Epoxy

2.79E-5

Gold

1.76E-5

Nickel

1.78E-5

Silicon

7.87E-3

Silver

6.15E-4

Tin

5.49E-3

Titanium

7.24E-7

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

NONE

N/A

**Header Substances**

**Total Weight (g)**

NONE

N/A

**Lead Frame Substances**

**Total Weight (g)**

NONE

N/A



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**Lid Substances**

Glass  
Polymeric Resin

**Total Weight (g)**

2.15E-1  
5.03E-1

**Pin Substances**

Copper  
Nickel  
Phosphorous  
Tin

**Total Weight (g)**

2.19E-1  
3.48E-3  
4.63E-4  
2.18E-2

**Silicone Substances**

Silicone

**Total Weight (g)**

1.00E-3

**Solder Substances**

NONE

**Total Weight (g)**

N/A

**Substrate Substances**

Alumina

**Total Weight (g)**

1.10E+0

**Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

**Total Weight (g)**

1.47E-4  
2.17E-2  
4.60E-3  
2.90E-4  
3.88E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

1.25E-4



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## Materials Substance Report

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### Substances Present in This Model

Substance	Total Weight (g)
Alumina	1.10E+0
Aluminum	1.58E-4
Barium Titanate	7.48E-3
Bismuth Titanate	4.40E-4
Cadmium Oxide	1.47E-4
Calcium Zirconate	4.40E-4
Copper	2.19E-1
Epoxy	2.79E-5
Glass	2.37E-1
Gold	4.62E-3
Lead Oxide	2.90E-4
Manganese Oxide	4.40E-4
Nickel	3.50E-3
Palladium	8.80E-5
Phosphorous	4.63E-4
Polymeric Resin	5.03E-1
Silica	4.40E-4
Silicon	7.87E-3
Silicone	1.00E-3
Silver	4.11E-2
Tin	2.73E-2
Titanium	7.24E-7

**Sum of All Substances Present in This Model (g)** 2.15E+0