



# Apex Microtechnology Materials Substance Report

**Model:** PB58

**Print Time:** 9/19/2013 9:34:03 AM

**RoHS Compliant:** Yes

**Lead Free:** No

**Bonding Island Substances**

**Total Weight (g)**

NONE

N/A

**Capacitor Substances**

**Total Weight (g)**

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

**Die Substances**

**Total Weight (g)**

Aluminum

7.78E-5

Epoxy

3.19E-4

Gold

8.67E-4

Nickel

5.07E-6

Silicon

1.83E-2

Silver

2.95E-3

Tin

2.01E-3

Titanium

2.07E-7

**Encapsulant Substances**

**Total Weight (g)**

NONE

N/A

**Frame Substances**

**Total Weight (g)**

NONE

N/A



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### Header Substances

	Total Weight (g)
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

	Total Weight (g)
NONE	N/A

### Lid Substances

	Total Weight (g)
Nickel	1.86E+0

### Pin Substances

	Total Weight (g)
NONE	N/A

### Silicone Substances

	Total Weight (g)
NONE	N/A

### Solder Substances

	Total Weight (g)
Silver	3.57E-3
Tin	9.84E-2

### Substrate Substances

	Total Weight (g)
Beryllium Oxide	8.00E-1



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**Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

**Total Weight (g)**

1.07E-4  
1.49E-2  
3.35E-3  
1.64E-4  
5.64E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

3.69E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.31E-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	3.19E-4
Glass	1.49E-2
Gold	4.21E-3
Iron	1.09E+1
Lead Oxide	1.64E-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	2.09E-2
Silver	6.61E-2
Sulfur	5.28E-3
Tin	1.00E-1
Titanium	2.07E-7

**Sum of All Substances Present in This Model (g)** 1.46E+1