



# Apex Microtechnology Materials Substance Report

**Model:** PA61

**Print Time:** 9/19/2013 9:20:14 AM

**RoHS Compliant:** Yes

**Lead Free:** No

**Bonding Island Substances**

NONE

**Total Weight (g)**

N/A

**Capacitor Substances**

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**

Aluminum

4.11E-4

Epoxy

6.49E-4

Gold

5.72E-4

Nickel

2.62E-4

Silicon

3.98E-2

Silver

9.76E-3

Tin

1.49E-3

Titanium

5.57E-5

**Encapsulant Substances**

NONE

**Total Weight (g)**

N/A

**Frame Substances**

NONE

**Total Weight (g)**

N/A



# Apex Microtechnology

## Materials Substance Report

**Model:** PA61

**Print Time:** 9/19/2013 9:20:14 AM

### 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



# Apex Microtechnology Materials Substance Report

**Model:** PA61

**Print Time:** 9/19/2013 9:20:14 AM

**Thickfilm Substances**

Cadmium Oxide  
Glass  
Gold  
Lead Oxide  
Silver

**Total Weight (g)**

1.07E-4  
7.70E-3  
3.35E-3  
8.11E-5  
2.82E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

6.43E-4



# Apex Microtechnology Materials Substance Report

Model: PA61

Print Time: 9/19/2013 9:20:14 AM

## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.92E-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	6.49E-4
Glass	7.70E-3
Gold	3.92E-3
Iron	1.09E+1
Lead Oxide	8.11E-5
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	4.24E-2
Silver	4.47E-2
Sulfur	5.28E-3
Tin	1.00E-1
Titanium	5.57E-5

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