



Apex Microtechnology Materials Substance Report

Model: PA89

Print Time: 9/19/2013 9:28:11 AM

RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances

Total Weight (g)

NONE

N/A

Capacitor Substances

Total Weight (g)

Barium Titanate

1.33E-1

Bismuth Titanate

7.80E-3

Calcium Zirconate

7.80E-3

Manganese Oxide

7.80E-3

Nickel

1.56E-3

Palladium

1.46E-3

Silica

7.80E-3

Silver

2.78E-2

Tin

3.90E-4

Die Substances

Total Weight (g)

Aluminum

1.31E-4

Epoxy

5.34E-5

Gold

2.12E-5

Nickel

9.89E-5

Silicon

3.09E-2

Silver

1.71E-3

Tin

2.19E-2

Titanium

4.03E-6

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	5.07E-4
Barium Oxide	3.09E-1
Carbon	3.69E-2
Chromium	5.07E-4
Cobalt	5.07E-4
Iron	3.67E+1
Manganese	1.53E-1
Nickel	2.59E-1
Phosphorous	1.49E-2
Silica	3.29E-1
Silicon	1.52E-3
Sulfur	1.83E-2

Lead Frame Substances

	Total Weight (g)
NONE	N/A

Lid Substances

	Total Weight (g)
Carbon	1.49E-2
Copper	2.48E-2
Iron	3.98E-2
Manganese	3.48E-2
Nickel	9.88E+0
Silicon	3.48E-2
Sulfur	9.94E-4

Pin Substances

	Total Weight (g)
NONE	N/A

Silicone Substances

	Total Weight (g)
NONE	N/A

Solder Substances

	Total Weight (g)
Silver	2.19E-2
Tin	6.05E-1



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Substrate Substances

Beryllium Oxide

Total Weight (g)

2.67E+0

Thickfilm Substances

Cadmium Oxide

Glass

Gold

Lead Oxide

Silver

Total Weight (g)

3.61E-4

5.34E-2

1.13E-2

8.54E-4

9.52E-2

Wire Substances

Aluminum

Total Weight (g)

3.31E-4



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	9.69E-4
Barium Oxide	3.09E-1
Barium Titanate	1.33E-1
Beryllium Oxide	2.67E+0
Bismuth Titanate	7.80E-3
Cadmium Oxide	3.61E-4
Calcium Zirconate	7.80E-3
Carbon	5.18E-2
Chromium	5.07E-4
Cobalt	5.07E-4
Copper	2.48E-2
Epoxy	5.34E-5
Glass	5.34E-2
Gold	1.13E-2
Iron	3.67E+1
Lead Oxide	8.54E-4
Manganese	1.88E-1
Manganese Oxide	7.80E-3
Nickel	1.01E+1
Palladium	1.46E-3
Phosphorous	1.49E-2
Silica	3.37E-1
Silicon	6.72E-2
Silver	1.47E-1
Sulfur	1.93E-2
Tin	6.27E-1
Titanium	4.03E-6

Sum of All Substances Present in This Model (g) 5.16E+1