



Apex Microtechnology Materials Substance Report

Model: PA88

Print Time: 9/19/2013 9:27:45 AM

RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances

Total Weight (g)

NONE

N/A

Capacitor Substances

Total Weight (g)

Barium Titanate

2.24E-2

Bismuth Titanate

1.32E-3

Calcium Zirconate

1.32E-3

Manganese Oxide

1.32E-3

Nickel

2.64E-4

Palladium

2.48E-4

Silica

1.32E-3

Silver

4.70E-3

Tin

4.40E-5

Die Substances

Total Weight (g)

Aluminum

4.66E-5

Epoxy

3.19E-5

Gold

1.67E-5

Nickel

3.30E-5

Silicon

1.10E-2

Silver

7.79E-4

Tin

8.01E-3

Titanium

1.34E-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	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
1.58E-2
3.35E-3
2.53E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

1.57E-4



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.07E-3
Barium Oxide	1.26E-1
Barium Titanate	2.24E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.32E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	1.32E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	3.19E-5
Glass	1.58E-2
Gold	3.36E-3
Iron	1.09E+1
Lead Oxide	2.53E-4
Manganese	4.85E-2
Manganese Oxide	1.32E-3
Nickel	2.30E+0
Palladium	2.48E-4
Phosphorous	4.46E-3
Silica	1.35E-1
Silicon	1.36E-2
Silver	3.73E-2
Sulfur	5.28E-3
Tin	1.06E-1
Titanium	1.34E-6
Sum of All Substances Present in This Model (g)	1.45E+1