



Apex Microtechnology

Materials Substance Report

Model: PA12

Print Time: 9/19/2013 9:13:08 AM

RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances

NONE

Total Weight (g)

N/A

Capacitor Substances

Barium Titanate

Total Weight (g)

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

6.60E-5

Die Substances

Aluminum

Total Weight (g)

1.57E-4

Epoxy

1.69E-5

Gold

7.52E-6

Silicon

3.97E-2

Silver

2.23E-3

Tin

2.08E-2

Encapsulant Substances

NONE

Total Weight (g)

N/A

Frame Substances

NONE

Total Weight (g)

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

	Total Weight (g)
Cadmium Oxide	1.29E-4
Glass	1.57E-2
Gold	3.35E-3
Lead Oxide	1.91E-4
Silver	2.82E-2

Wire Substances

	Total Weight (g)
Aluminum	7.54E-4

Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.78E-3
Barium Oxide	1.26E-1
Barium Titanate	2.24E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.32E-3
Cadmium Oxide	1.29E-4
Calcium Zirconate	1.32E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	1.69E-5
Glass	1.57E-2
Gold	3.35E-3
Iron	1.09E+1
Lead Oxide	1.91E-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	4.23E-2
Silver	3.87E-2
Sulfur	5.28E-3
Tin	1.19E-1



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