



Apex Microtechnology Materials Substance Report

Model: PA03

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RoHS Compliant: No

Lead Free: No

Bonding Island Substances

Aluminum
Copper

Total Weight (g)

5.17E-3
6.29E-2

Capacitor Substances

Barium Titanate
Bismuth Titanate
Calcium Zirconate
Manganese Oxide
Palladium
Silica
Silver

Total Weight (g)

1.07E-1
6.28E-3
6.28E-3
6.28E-3
1.26E-3
6.28E-3
2.39E-2

Die Substances

Aluminum
Epoxy
Gold
Nickel
Silicon
Silver
Tin
Titanium

Total Weight (g)

5.15E-4
1.09E-4
5.51E-5
5.38E-5
1.14E-1
8.00E-3
6.67E-2
2.74E-5

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	2.92E-3
Barium Oxide	4.24E-1
Carbon	8.44E-3
Chromium	2.92E-3
Cobalt	2.92E-3
Copper	3.99E+1
Iron	8.34E+0
Manganese	4.61E-2
Nickel	1.48E+0
Phosphorous	3.61E-3
Silica	4.52E-1
Silicon	8.76E-3
Sulfur	3.49E-3

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)
Silicon Rubber	8.00E-2

Solder Substances

	Total Weight (g)
Indium	1.94E-1
Lead	1.94E-1



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Substrate Substances

Alumina
Beryllium Oxide

Total Weight (g)

1.35E+0
1.57E+0

Thickfilm Substances

Cadmium Oxide
Glass
Gold
Lead Oxide
Silver

Total Weight (g)

1.29E-4
1.58E-2
3.35E-3
2.33E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

4.94E-3



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Substances Present in This Model

Substance	Total Weight (g)
Alumina	1.35E+0
Aluminum	1.35E-2
Barium Oxide	4.24E-1
Barium Titanate	1.07E-1
Beryllium Oxide	1.57E+0
Bismuth Titanate	6.28E-3
Cadmium Oxide	1.29E-4
Calcium Zirconate	6.28E-3
Carbon	2.33E-2
Chromium	2.92E-3
Cobalt	2.92E-3
Copper	4.00E+1
Epoxy	1.09E-4
Glass	1.58E-2
Gold	3.40E-3
Indium	1.94E-1
Iron	8.38E+0
Lead	1.94E-1
Lead Oxide	2.33E-4
Manganese	8.09E-2
Manganese Oxide	6.28E-3
Nickel	1.14E+1
Palladium	1.26E-3
Phosphorous	3.61E-3
Silica	4.58E-1
Silicon	1.57E-1
Silicon Rubber	8.00E-2
Silver	6.01E-2
Sulfur	4.48E-3
Tin	6.67E-2
Titanium	2.74E-5

Sum of All Substances Present in This Model (g) 6.46E+1