



Apex Microtechnology

Materials Substance Report

Model: PA01

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RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances	Total Weight (g)
NONE	N/A
Capacitor Substances	Total Weight (g)
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	Total Weight (g)
Aluminum	5.75E-5
Chromium	1.72E-5
Epoxy	2.24E-4
Gold	1.01E-4
Nickel	2.13E-5
Silicon	1.49E-2
Silicon Nitride	4.44E-9
Silver	3.41E-3
Tin	1.49E-3
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)

1.29E-4
7.93E-3
3.35E-3
1.86E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

3.17E-4



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.24E-3
Barium Oxide	1.26E-1
Barium Titanate	1.50E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	8.80E-4
Cadmium Oxide	1.29E-4
Calcium Zirconate	8.80E-4
Carbon	1.10E-2
Chromium	8.82E-4
Cobalt	8.65E-4
Epoxy	2.24E-4
Glass	7.93E-3
Gold	3.45E-3
Iron	1.09E+1
Lead Oxide	1.86E-4
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	1.75E-2
Silicon Nitride	4.44E-9
Silver	3.83E-2
Sulfur	5.28E-3
Tin	1.00E-1
Sum of All Substances Present in This Model (g)	1.45E+1