



Apex Microtechnology Materials Substance Report

Model: PA83M

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RoHS Compliant: No

Lead Free: No

Bonding Island Substances	Total Weight (g)
NONE	N/A

Capacitor Substances	Total Weight (g)
Barium Titanate	3.74E-2
Bismuth Titanate	2.20E-3
Calcium Zirconate	2.20E-3
Gold	1.10E-4
Manganese Oxide	2.20E-3
Nickel	4.40E-4
Palladium	3.30E-4
Platinum	8.25E-5
Silica	1.76E-3
Silicon	4.40E-4
Silver	7.83E-3

Die Substances	Total Weight (g)
Aluminum	2.42E-5
Epoxy	5.91E-5
Gold	2.40E-5
Silicon	5.12E-3
Silicon Nitride	4.44E-9
Silver	1.04E-3
Tin	1.61E-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)
Lead	2.30E-2
Silver	3.57E-3
Tin	1.38E-1

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
7.93E-3
3.35E-3
2.06E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

1.28E-4



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.02E-3
Barium Oxide	1.26E-1
Barium Titanate	3.74E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	2.20E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	2.20E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	5.91E-5
Glass	7.93E-3
Gold	3.48E-3
Iron	1.09E+1
Lead	2.30E-2
Lead Oxide	2.06E-4
Manganese	4.85E-2
Manganese Oxide	2.20E-3
Nickel	2.30E+0
Palladium	3.30E-4
Phosphorous	4.46E-3
Platinum	8.25E-5
Silica	1.36E-1
Silicon	8.16E-3
Silicon Nitride	4.44E-9
Silver	4.06E-2
Sulfur	5.28E-3
Tin	1.39E-1
Sum of All Substances Present in This Model (g)	1.46E+1