



Apex Microtechnology Materials Substance Report

Model: PA85

Print Time: 9/19/2013 9:26:48 AM

RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances	Total Weight (g)
NONE	N/A
Capacitor Substances	Total Weight (g)
Barium Titanate	2.99E-2
Bismuth Titanate	1.76E-3
Calcium Zirconate	1.76E-3
Manganese Oxide	1.76E-3
Nickel	3.52E-4
Palladium	3.30E-4
Silica	1.76E-3
Silver	6.27E-3
Tin	8.80E-5
Die Substances	Total Weight (g)
Aluminum	5.22E-5
Epoxy	1.03E-4
Gold	6.60E-5
Nickel	2.54E-5
Silicon	1.18E-2
Silver	1.78E-3
Tin	4.16E-3
Titanium	1.03E-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)

1.49E-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	2.99E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.76E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	1.76E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	1.03E-4
Glass	1.58E-2
Gold	3.41E-3
Iron	1.09E+1
Lead Oxide	2.53E-4
Manganese	4.85E-2
Manganese Oxide	1.76E-3
Nickel	2.30E+0
Palladium	3.30E-4
Phosphorous	4.46E-3
Silica	1.36E-1
Silicon	1.44E-2
Silver	3.98E-2
Sulfur	5.28E-3
Tin	1.03E-1
Titanium	1.03E-6
Sum of All Substances Present in This Model (g)	1.45E+1