



Apex Microtechnology Materials Substance Report

Model: PA08

Print Time: 9/19/2013 9:09:18 AM

RoHS Compliant: Yes

Lead Free: No

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

Capacitor Substances	Total Weight (g)
Barium Titanate	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	4.40E-5

Die Substances	Total Weight (g)
Aluminum	2.44E-5
Epoxy	5.73E-5
Gold	2.95E-5
Silicon	5.40E-3
Silicon Nitride	4.44E-9
Silver	1.01E-3
Tin	1.69E-3

Encapsulant Substances	Total Weight (g)
NONE	N/A

Frame Substances	Total Weight (g)
NONE	N/A



Apex Microtechnology Materials Substance Report

Model: PA08

Print Time: 9/19/2013 9:09:18 AM

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



Apex Microtechnology Materials Substance Report

Model: PA08

Print Time: 9/19/2013 9:09:18 AM

Thickfilm Substances

Cadmium Oxide
Glass
Gold
Lead Oxide
Silver

Total Weight (g)

1.07E-4
1.57E-2
3.35E-3
2.11E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

1.28E-4



Apex Microtechnology Materials Substance Report

Model: PA08

Print Time: 9/19/2013 9:09:18 AM

Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.02E-3
Barium Oxide	1.26E-1
Barium Titanate	2.24E-2
Beryllium Oxide	8.00E-1
Bismuth Titanate	1.32E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	1.32E-3
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	5.73E-5
Glass	1.57E-2
Gold	3.38E-3
Iron	1.09E+1
Lead Oxide	2.11E-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	8.00E-3
Silicon Nitride	4.44E-9
Silver	3.75E-2
Sulfur	5.28E-3
Tin	1.00E-1
Sum of All Substances Present in This Model (g)	1.45E+1