



Apex Microtechnology

Materials Substance Report

Model: SA09

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RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances	Total Weight (g)
Aluminum	1.88E-3
Copper	7.48E-3

Capacitor Substances	Total Weight (g)
Barium Titanate	1.32E-1
Bismuth Titanate	7.76E-3
Calcium Zirconate	7.76E-3
Manganese Oxide	7.76E-3
Nickel	1.55E-3
Palladium	1.46E-3
Silica	7.76E-3
Silver	2.76E-2
Tin	3.88E-4

Die Substances	Total Weight (g)
Aluminum	6.67E-5
Chromium	1.21E-5
Epoxy	9.20E-5
Gold	5.11E-5
Nickel	5.00E-5
Silicon	3.73E-2
Silver	1.84E-3
Tin	1.30E-2
Titanium	2.48E-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	6.25E-4
Barium Oxide	5.46E-2
Carbon	9.57E-3
Chromium	6.25E-4
Cobalt	6.25E-4
Iron	9.50E+0
Manganese	4.17E-2
Nickel	3.19E-1
Phosphorous	3.94E-3
Silica	5.81E-2
Silicon	1.87E-3
Sulfur	4.63E-3

Lead Frame Substances

	Total Weight (g)
NONE	N/A

Lid Substances

	Total Weight (g)
Iron	1.80E+0
Manganese	1.00E-2
Nickel	5.83E-2

Pin Substances

	Total Weight (g)
NONE	N/A

Silicone Substances

	Total Weight (g)
NONE	N/A

Solder Substances

	Total Weight (g)
Silver	1.03E-2
Tin	2.85E-1

Substrate Substances

	Total Weight (g)
Beryllium Oxide	4.90E-1



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Thickfilm Substances

Cadmium Oxide
Glass
Gold
Lead Oxide
Silver

Total Weight (g)

1.07E-4
1.60E-2
3.35E-3
2.94E-4
2.82E-2

Wire Substances

Aluminum

Total Weight (g)

6.88E-4



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	3.26E-3
Barium Oxide	5.46E-2
Barium Titanate	1.32E-1
Beryllium Oxide	4.90E-1
Bismuth Titanate	7.76E-3
Cadmium Oxide	1.07E-4
Calcium Zirconate	7.76E-3
Carbon	9.57E-3
Chromium	6.37E-4
Cobalt	6.25E-4
Copper	7.48E-3
Epoxy	9.20E-5
Glass	1.60E-2
Gold	3.40E-3
Iron	1.13E+1
Lead Oxide	2.94E-4
Manganese	5.17E-2
Manganese Oxide	7.76E-3
Nickel	3.79E-1
Palladium	1.46E-3
Phosphorous	3.94E-3
Silica	6.59E-2
Silicon	3.92E-2
Silver	6.80E-2
Sulfur	4.63E-3
Tin	2.98E-1
Titanium	2.48E-6
Sum of All Substances Present in This Model (g)	1.30E+1