



# Apex Microtechnology

## Materials Substance Report

**Model:** PA96CE

**Print Time:** 9/19/2013 9:31:46 AM

**RoHS Compliant:** Yes

**Lead Free:** No

<b>Bonding Island Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Capacitor Substances</b>	<b>Total Weight (g)</b>
Barium Titanate	7.48E-3
Bismuth Titanate	4.40E-4
Calcium Zirconate	4.40E-4
Manganese Oxide	4.40E-4
Nickel	8.80E-5
Palladium	8.25E-5
Silica	4.40E-4
Silver	1.57E-3
Tin	2.20E-5
<b>Die Substances</b>	<b>Total Weight (g)</b>
Aluminum	9.32E-5
Epoxy	4.41E-4
Gold	9.60E-4
Nickel	2.91E-5
Silicon	2.18E-2
Silver	4.67E-3
Tin	2.12E-4
Titanium	1.49E-5
<b>Encapsulant Substances</b>	<b>Total Weight (g)</b>
NONE	N/A
<b>Frame Substances</b>	<b>Total Weight (g)</b>
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  
1.57E-2  
3.35E-3  
2.11E-4  
2.82E-2

**Wire Substances**

Aluminum

**Total Weight (g)**

3.47E-4



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## Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.31E-3
Barium Oxide	1.26E-1
Barium Titanate	7.48E-3
Beryllium Oxide	8.00E-1
Bismuth Titanate	4.40E-4
Cadmium Oxide	1.07E-4
Calcium Zirconate	4.40E-4
Carbon	1.10E-2
Chromium	8.65E-4
Cobalt	8.65E-4
Epoxy	4.41E-4
Glass	1.57E-2
Gold	4.31E-3
Iron	1.09E+1
Lead Oxide	2.11E-4
Manganese	4.85E-2
Manganese Oxide	4.40E-4
Nickel	2.30E+0
Palladium	8.25E-5
Phosphorous	4.46E-3
Silica	1.34E-1
Silicon	2.44E-2
Silver	3.80E-2
Sulfur	5.28E-3
Tin	9.87E-2
Titanium	1.49E-5
<b>Sum of All Substances Present in This Model (g)</b>	<b>1.45E+1</b>