



Apex Microtechnology

Materials Substance Report

Model: PA15FL

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RoHS Compliant: Yes

Lead Free: No

Bonding Island Substances	Total Weight (g)
NONE	N/A
Capacitor Substances	Total Weight (g)
NONE	N/A
Die Substances	Total Weight (g)
Aluminum	2.83E-5
Epoxy	9.09E-5
Gold	7.63E-5
Nickel	2.54E-6
Silicon	7.69E-3
Silicon Nitride	4.00E-8
Silver	1.42E-3
Tin	1.70E-3
Titanium	1.03E-7
Encapsulant Substances	Total Weight (g)
NONE	N/A
Frame Substances	Total Weight (g)
Epoxy	3.20E-2
Glass	9.20E-2
Polymeric Resin	2.16E-1
Header Substances	Total Weight (g)
Carbon	6.62E-3
Iron	6.58E+0
Manganese	2.72E-2
Nickel	5.78E-2
Phosphorous	2.65E-3
Sulfur	3.31E-3
Lead Frame Substances	Total Weight (g)
NONE	N/A



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Lid Substances

Glass
Polymeric Resin

Total Weight (g)

1.54E-1
3.60E-1

Pin Substances

Copper
Nickel
Phosphorous
Silver
Tin

Total Weight (g)

6.02E-1
5.76E-3
1.27E-3
3.49E-3
1.45E-1

Silicone Substances

Silicone

Total Weight (g)

4.00E-1

Solder Substances

Silver
Tin

Total Weight (g)

6.83E-3
1.88E-1

Substrate Substances

Beryllium Oxide

Total Weight (g)

1.33E+0

Thickfilm Substances

Cadmium Oxide
Glass
Gold
Lead Oxide
Silver

Total Weight (g)

1.78E-4
2.62E-2
5.57E-3
3.51E-4
4.69E-2

Wire Substances

Aluminum

Total Weight (g)

9.77E-5



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Substances Present in This Model

Substance	Total Weight (g)
Aluminum	1.26E-4
Beryllium Oxide	1.33E+0
Cadmium Oxide	1.78E-4
Carbon	6.62E-3
Copper	6.02E-1
Epoxy	3.21E-2
Glass	2.72E-1
Gold	5.64E-3
Iron	6.58E+0
Lead Oxide	3.51E-4
Manganese	2.72E-2
Nickel	6.36E-2
Phosphorous	3.92E-3
Polymeric Resin	5.76E-1
Silicon	7.69E-3
Silicon Nitride	4.00E-8
Silicone	4.00E-1
Silver	5.86E-2
Sulfur	3.31E-3
Tin	3.35E-1
Titanium	1.03E-7
Sum of All Substances Present in This Model (g)	1.03E+1