



Apex Microtechnology Materials Substance Report

Model: SWR200C

Print Time: 9/24/2013 10:02:34 AM

RoHS Compliant: Yes

Lead Free: No

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

Capacitor Substances	Total Weight (g)
Barium Titanate	5.03E-2
Bismuth Titanate	2.96E-3
Calcium Zirconate	2.96E-3
Manganese Oxide	2.96E-3
Palladium	5.92E-4
Silica	2.96E-3
Silver	1.13E-2

Die Substances	Total Weight (g)
Aluminum	3.95E-5
Chromium	1.08E-6
Epoxy	2.31E-4
Gold	9.79E-5
Nickel	4.28E-6
Silica	1.55E-4
Silicon	1.26E-2
Silver	2.00E-3
Tantalum Nitride	1.98E-7

Encapsulant Substances	Total Weight (g)
NONE	N/A

Frame Substances	Total Weight (g)
NONE	N/A



Apex Microtechnology

Materials Substance Report

Model: SWR200C

Print Time: 9/24/2013 10:02:34 AM

Header Substances

	Total Weight (g)
Alumina	1.68E+0
Aluminum	2.14E-4
Carbon	7.15E-6
Chromium	3.60E-4
Cobalt	9.51E-2
Gold	1.96E-2
Iron	3.74E-1
Manganese	2.80E-3
Nickel	2.33E-1
Phosphorous	3.57E-5
Silica	1.14E-3
Sulfur	3.57E-5

Lead Frame Substances

	Total Weight (g)
NONE	N/A

Lid Substances

	Total Weight (g)
Cobalt	6.78E-2
Iron	2.13E-1
Manganese	1.20E-3
Nickel	1.30E-1
Phosphorous	1.20E-3
Silicon	7.97E-4

Pin Substances

	Total Weight (g)
NONE	N/A

Silicone Substances

	Total Weight (g)
Alumina	2.39E-4
Thermoplastic Resin	1.01E-4

Solder Substances

	Total Weight (g)
NONE	N/A



Apex Microtechnology

Materials Substance Report

Model: SWR200C

Print Time: 9/24/2013 10:02:34 AM

Substrate Substances

	Total Weight (g)
Alumina	2.48E-1
Calcium Oxide	5.20E-4
Iron Oxide	2.60E-4
Manganese Oxide	2.10E-3
Silica	7.20E-3

Thickfilm Substances

	Total Weight (g)
Cadmium Oxide	4.00E-6
Glass	1.36E-3
Gold	7.11E-4
Lead Oxide	2.66E-5

Wire Substances

	Total Weight (g)
Aluminum	1.87E-4



Apex Microtechnology Materials Substance Report

Model: SWR200C

Print Time: 9/24/2013 10:02:34 AM

Substances Present in This Model

Substance	Total Weight (g)
Alumina	1.93E+0
Aluminum	4.41E-4
Barium Titanate	5.03E-2
Bismuth Titanate	2.96E-3
Cadmium Oxide	4.00E-6
Calcium Oxide	5.20E-4
Calcium Zirconate	2.96E-3
Carbon	7.15E-6
Chromium	3.61E-4
Cobalt	1.63E-1
Epoxy	2.31E-4
Glass	1.36E-3
Gold	2.04E-2
Iron	5.87E-1
Iron Oxide	2.60E-4
Lead Oxide	2.66E-5
Manganese	4.00E-3
Manganese Oxide	5.06E-3
Nickel	3.63E-1
Palladium	5.92E-4
Phosphorous	1.24E-3
Silica	1.15E-2
Silicon	1.34E-2
Silver	1.33E-2
Sulfur	3.57E-5
Tantalum Nitride	1.98E-7
Thermoplastic Resin	1.01E-4

Sum of All Substances Present in This Model (g) 3.17E+0