

# MATERIAL DECLARATION SHEET



Material Number	<b>PWR2010W</b>			
Product Line	<b>Surface Mound Wirewound Power Resistor</b>			
Compliance Date	<b>September 4, 2016</b>			
RoHS Compliant	<b>Yes</b>	<b>MSL</b>	<b>1</b>	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic Core – End Cap	Ceramic Core	0.0127	Aluminum oxide	1344-28-1	83.08%	29.69%	33.05%
				Quartz	14808-60-7	15.00%	5.36%	
				Magnesium oxide	1309-48-4	0.19%	0.07%	
				Calcium oxide	1305-78-8	0.18%	0.06%	
				Ferric oxide	1309-37-1	0.17%	0.06%	
				Sodium oxide	1313-59-3	1.02%	0.36%	
				Potassium oxide	12136-45-7	0.21%	0.08%	
		Barium oxide	1304-28-5	0.15%	0.05%			
		End Cap	0.0183	Iron	7439-89-6	98.81%	50.80%	
				Carbon	7440-44-0	0.18%	0.09%	
				Manganese	7439-96-5	0.82%	0.42%	
				Sulfur	7704-34-9	0.08%	0.04%	
		Copper Plating	0.0034	Copper	7440-50-8	100.00%	9.64%	
Tin Plating	0.0011	Tin	7440-31-5	100.00%	3.21%			
2	Ceramic Core - Lead	Copper Lead	0.0170	Copper	7440-50-8	100.00%	95.24%	16.54%
		Tin Plating	0.0008	Tin	7440-31-5	100.00%	4.76%	
3	Alloy Resistance Wire	Nickel	0.00314	Nickel	7440-02-0	81.00%	81.00%	2.92%
		Chromium		Chromium	7440-47-3	15.00%	15.00%	
		Aluminum		Aluminum	7429-90-5	4.00%	4.00%	
4	Protective Coat	Silicone Resin	0.0020	Silica	14808-60-7	100.00%	100.00%	1.84%

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5	Epoxy Mold	Epoxy Molding Compound	0.0492	Silica	14808-60-7	64.00%	63.96%	45.65%
				Epoxy Resin	29690-82-2	20.00%	19.99%	
				Phenol Resin	9003-35-4	12.50%	12.49%	
				Antimony Trioxide	1309-64-4	2.50%	2.50%	
				Brominated Epoxy R.	40039-93-8	0.50%	0.50%	
				Carbon Black	1333-86-4	0.50%	0.50%	
Total			0.1077					

**This Document was updated on: September 04<sup>th</sup>. 2016**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.