

MATERIAL DECLARATION SHEET



Material Number	PWR4318W			
Product Line	Surface Mound Wirewound Power Resistor			
Compliance Date	September 4, 2016			
RoHS Compliant	Yes	MSL	1	

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	0.1394	Aluminum oxide	1344-28-1	83.08%	53.20%	34.63%
				Quartz	14808-60-7	15.00%	9.61%	
				Magnesium oxide	1309-48-4	0.19%	0.12%	
				Calcium oxide	1305-78-8	0.18%	0.12%	
				Ferric oxide	1309-37-1	0.17%	0.11%	
				Sodium oxide	1313-59-3	1.02%	0.65%	
				Potassium oxide	12136-45-7	0.21%	0.13%	
		End Cap	0.0626	Iron	7439-89-6	98.81%	28.43%	
				Carbon	7440-44-0	0.18%	0.05%	
				Manganese	7439-96-5	0.82%	0.24%	
				Sulfur	7704-34-9	0.08%	0.02%	
				Phosphorus	7723-14-0	0.11%	0.03%	
		Copper Plating	0.0117	Copper	7440-50-8	100.00%	5.39%	
Tin Plating	0.0039	Tin	7440-31-5	100.00%	1.80%			
2	Ceramic Core - Lead	Copper Lead	0.0433	Copper	7440-50-8	100.00%	95.24%	7.23%
		Tin Plating	0.0022	Tin	7440-31-5	100.00%	4.76%	
3	Alloy Resistance Wire	Nickel	0.0126	Nickel	7440-02-0	81.00%	81.00%	2.00%
		Chromium		Chromium	7440-47-3	15.00%	15.00%	
		Aluminum		Aluminum	7429-90-5	4.00%	4.00%	
4	Protective Coat	Silicone Resin	0.0097	Silica	14808-60-7	100.00%	100.00%	1.54%

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5	Epoxy Mold	Epoxy Molding Compound	0.3432	Silica	14808-60-7	64.00%	64.00%	54.60%
				Epoxy Resin	29690-82-2	20.00%	20.00%	
				Phenol Resin	9003-35-4	12.50%	12.50%	
				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	0.6286					

This Document was updated on: September 4, 2016

Important remarks:

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