

MATERIAL DECLARATION SHEET



Material Number	PWR221T-50XXX			
Product Line	Power Resistor			
Compliance Date	July 5, 2017			
RoHS Compliant	Yes	MSL	N/A	

PWR221T-50XXX

No.	Construction Element (Subpart)	Homogeneous Material	Material Weight (g)	Homogeneous Material	CASRN	Material Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substance				
1	Housing	Epoxy Molding Compound	0.644	Silica	14808-60-7	53	27.9	52.627
				Epoxy resin	29690-82-2	25	13.2	
				Phenolic resin	9003-35-4	15	7.9	
				Antimony trioxide	1309-64-4	3	1.6	
				Brominated epoxy resin	40039-93-8	3	1.6	
				Carbon Black	1333-86-4	1	0.5	
2	Terminal	Copper	0.251	Copper	7440-50-8	99.999	20.505	20.512
				Oxygen	7782-44-7	0.001	0.0002	
		Plating	0.016	Tin	7440-31-5	100	1.307	1.307

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3	Substrate	Alumina	0.3089	Aluminum oxide	1344-28-1	88	22.2067	25.243
				Manganese dioxide	1313-13-9	3.5	0.8832	
				Titanium-dioxide	13463-67-7	3.5	0.8832	
				Chromium(III)oxide	1308-38-9	2.5	0.6309	
				Quartz (Silicon dioxide)	14808-60-7	2.5	0.6309	
4	Term Ink	Ink	0.001	Silver	7440-22-4	96	0.0864	0.082
				Lead	7439-92-1	1	0.0009	
				Bismuth	7440-69-9	1	0.0009	
				Platinum	7440-06-4	1	0.0009	
				Confidential Substances	Trade Secret	1	0.0009	
5	Resistor ink	Ink	0.0023	Palladium	7440-05-3	33	0.0620	0.188
				Boron	7440-42-8	10	0.0188	
				Aluminum	7429-90-5	10	0.0188	
				Silicon	7440-21-3	10	0.0188	
				Lead	7439-92-1	10	0.0188	
				Silver	7440-22-4	20	0.0376	
				Ruthenium dioxide	12036-10-1	1.5	0.0028	
				Manganese dioxide	1313-13-9	1.5	0.0028	
				Alumina	1344-28-1	4	0.0075	
6	Encapsulant Glaze Ink	Ink	0.0005	Lead	7439-92-1	56.66	0.0231	0.041
				Silicon dioxide	7631-86-9	27.89	0.0114	
				Boron	7440-42-8	9.15	0.0037	
				Chromium(III)oxide	1308-38-9	3.15	0.0013	
				Confidential Substances without declarable substances	trade secret	3.15	0.0013	
		Total Weight	1.2237					

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This Document was updated on: 10/25/2018

Important remarks:

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