


MATERIAL DECLARATION SHEET



Material Number	4116R-LF SERIES			
Product Line	Networks			
Compliance Date	16/4/2018			
RoHS Compliant	Yes	MSL	N/A	

4116R-LF SERIES

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	Substrate	Alumina	0.2188	Aluminum oxide	1344-28-1	88	13.828	15.714
				Manganese dioxide	1313-13-9	3.5	0.550	
				Titanium-dioxide	13463-67-7	3.5	0.550	
				Chromium(III)oxide	1308-38-9	2.5	0.393	
				Quartz (Silicon dioxide)	14808-60-7	2.5	0.393	
2	Term Ink	Ink	0.0016	Silver	7440-22-4	93	0.107	0.115
				Bismuth	7440-69-9	2	0.002	
				Lead	7439-92-1	2	0.002	
				Platinum	7440-06-4	2	0.002	
				Copper	7440-50-8	1	0.001	

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3	Resistive Ink	Ink	0.0004	Palladium	7440-06-4	33	0.009	0.029
				Boron	7440-42-8	10	0.003	
				Aluminum	7429-90-5	10	0.003	
				Silicon	7440-21-3	10	0.003	
				Lead	7439-92-1	10	0.003	
				Silver	7440-22-4	20	0.006	
				Ruthenium dioxide	12036-10-1	1.5	0.000	
				Manganese	7439-96-5	1.5	0.000	
				Alumina	1344-28-1	4	0.001	
4	Encapsulant Glaze Ink	Ink	0.0029	Lead	1317-36-8	56.66	0.118	0.208
				Silicon dioxide	7631-86-9	27.89	0.058	
				Boron	7440-42-8	9.15	0.019	
				Chromium(III)	7440-47-3	3.15	0.007	
				Confidential Substances without declarable substances	trade secret	3.15	0.007	
5	Terminals Pins	Copper	0.3143	Copper	7440-50-8	99.999	22.5723	22.573
				Oxygen	7782-44-7	0.001	0.0002	
		Plating	0.0014	Tin	7440-31-5	100	0.101	0.100
6	Solder paste	Solder	0.023	Lead	7439-92-1	88	1.4536	1.652
				Tin	7440-31-5	10	0.1652	
				Silver	7440-22-4	2	0.0330	

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17	Housing	Epoxy Molding Compound	0.83	Silica fused	60676-86-0	69	41.1304	59.609
				Epoxy cresol novolac	29690-82-2	15	8.9419	
				Phenol novolac	9003-35-4	10	5.9609	
				Antimony trioxide	1309-64-4	3	1.7883	
				Brominated epoxy resin	68541-56-0	2	1.1922	
				Carbon black	1333-86-4	1	0.5961	
		Total Weight	1.3924					

This Document was updated on: 9/18/2018

Important remarks:.

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