

MATERIAL DECLARATION SHEET



Material Number	4607X			
Product Line	Thick Film Conformal SIP			
Compliance Date	4-12-2010			
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 substrate	Alumina	0.11389	Aluminum oxide	1344-28-1	96.60	30.051	31.109
				Silicon dioxide	14808-60-7	2.10	0.653	
				Magnesium oxide	1309-48-4	1.10	0.342	
				Calcium oxide	1305-78-8	0.20	0.062	
2	Protective coating	Protective coating	0.00091	Bismuth trioxide	1304-76-3	60.00	0.149	0.249
				Silicon dioxide	14808-60-7	35.00	0.087	
				Chromium III oxide	7440-47-3	5.00	0.012	
3	Resistor	Resistive glass	0.00238	Ruthenium dioxide	12036-10-1	15.84	0.103	0.650
				Lead in glass	7439-92-1	42.08	0.274	
				Silicon	7440-21-3	16.83	0.109	
				Boron	7440-42-8	5.89	0.038	
				Aluminum	7429-90-5	16.83	0.109	
				Zinc	7440-66-6	2.53	0.016	
4	Termination	Silver Palladium glass	0.00413	Silver	7440-22-4	93.63	1.056	1.129
				Palladium	7440-05-3	1.02	0.012	
				Glass	65997-17-3	5.44	0.061	
5	Leadframe with matte tin plating	Steel alloy with tin plating	0.0644	Iron	7439-89-6	85.86	15.103	17.591
				Tin	7440-31-5	14.14	2.487	
6	Solder	Solder	0.02331	Tin	7440-31-5	98.5	6.272	6.367
				Silver	7440-22-4	1.0	0.064	

			Copper	7440-50-8	0.5	0.032	
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7	Encapsulation	Molding compound	0.15708	Epoxy resin	25068-38-6	30	12.872	42.906
				Silicon dioxide	14808-60-7	45	19.308	
				Non-halogen flame retardant	proprietary	17	7.294	
				Pigment (Titanium dioxide)	13463-67-7	4	1.7165	
				Pigment (Pigment Yellow 17)	4531-49-1	4	1.7165	
		Total weight	0.3661					

This Document was updated on: **Jan 10, 2025**

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: 7(c)-I electrical and electronic components containing lead in a glass or ceramic...

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