


# Material Declaration Sheet



Material	CAT25-JALF	
Product Line	Chip Array	
Date	27-April-2005	
RoHS compliant?	Yes	

No.	Construction element	Material group	Material weight [g]	Materials	CAS if applicable	Average mass [%]	Sum [%]
1	Ceramic	Substrate	0.01468	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	96	88.7
				SiO <sub>2</sub>	14808-60-7	3	
				Other		1	
2	Conductor	Terminal Electrode	0.00061	Ag-Pd	7440-22-4	92	3.7
				Bi <sub>2</sub> O <sub>3</sub>	1304-86-3	5	
				ZrO <sub>2</sub>	1314-23-4	1	
				Other		2	
3	Resistive film	Resistor	0.00010	Glass	65997-18-4	43	0.6
				RuO <sub>2</sub>	12036-10-1	36	
				Ag	7440-22-4	7	
				CaO	1305-78-8	6	
				Al <sub>2</sub> O <sub>3</sub>	1344-28-1	1	
				Pd	7440-05-3	1	
				ZnO	1314-13-2	1	
				MnO <sub>2</sub>	1313-13-9	1	
Other		4					
4	Overcoat	Inner	0.00020	Glass	65997-18-4	90	1.2
				Al <sub>2</sub> O <sub>3</sub>	1344-28-1	6	
				TiO <sub>2</sub>	13463-67-7	4	

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5	Overcoat	Outer	0.00078	Glass	65997-18-4	88	2.7
				Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	5	
				TiO <sub>2</sub>	13463-67-7	3	
				CuO	1317-38-0	3	
				Other		1	
6	Side termination	Thick film	0.00007	Ag-Pd	7440-22-4	92	0.4
				Bi <sub>2</sub> O <sub>3</sub>	1304-86-3	5	
				ZrO <sub>2</sub>	1314-23-4	1	
				Other		2	
7	Ni plating	Inner	0.00028	Ni	7440-02-0	100	1.7
8	Sn plating	Outer	0.00017	Sn	7440-31-5	100	1.0
		Total weight	0.01691				

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## Important remarks:

1. Traces are product parts substances etc. that are below a percentage of 0.1% of total weight.
2. A list of the legally regulated substances or materials is available at internet address <http://www.eicta.org/content.asp?pageID=113>
3. Substances, materials etc. with possible harm to men and environment are listed.
4. There are no risks for human beings and to the environment if products are used properly as designated. This shall not apply to risks caused during procedures for disposal etc.
5. All statements herein are based on our present knowledge.