


MATERIAL DECLARATION SHEET



Material #	CMF-RL(BIG)	
Product Line	PTC resistors	
Date	1/6/2009	
Version	A/1	
RoHS Compliant	Yes	

No.	Construction element	Material group	Material weight [g]	Materials	CAS if applicable	Average mass [%]	Sum [%]	Subpart mass of total wt. (%)
1	Substrate	Ceramic	0.8691	Barium oxide	1304-28-5	50	100	76.816%
				Titanium dioxide	13463-67-7	25		
				Strontium oxide	1314-18-7	10		
				Lead oxide	1317-36-8	7		
				Calcium oxide	1305-78-8	5		
				Other		3		
2	Top electrode	Silver	0.0054	Silver	7440-22-4	98	100	0.477%
				Other		2		
3	Bottom electrode	Silver	0.0064	Silver	7440-22-4	78	100	0.566%
				Zinc	7740-66-6	20		
				Other		2		
4	Tinned copper wire	Copper	0.070	Copper	7440-50-8	95	100	6.187%
				Tin	7440-31-5	4		
				Other		1		

MATERIAL DECLARATION SHEET



5	Encapsulation material	Silicon	0.1632	Silicon dioxide	56275-01-5	78	100	14.424%
				Silicone resin	7631-86-9	20		
				Other		2		
6	Soldering	Tin	0.0173	Tin	7440-31-5	96	100	1.529%
				Silver	7440-22-4	3.5		
				Other		0.5		
7	Marking	Glass		Glass	65997-18-4	100	100	
		Total weight	1.1314					

This document was updated on: January 6, 2009

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemption: 7c – lead in electronic ceramic parts.