




MATERIAL DECLARATION SHEET

Material #	CMF-SD (Mid)	
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	0.372	Barium oxide	1304-28-5	50	100	27.454%
				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	0.006	Silver	7440-22-4	98	100	0.443%
				Other		2		
3	Bottom electrode	Silver	0.004	Silver	7440-22-4	78	100	0.295%
				Zinc	7740-66-6	20		
				Other		2		



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4	Terminal	Copper	0.268	Copper	7440-50-8	95	100	19.779%
				Tin	7440-31-5	4		
				Other		1		
5	Cover	Nylon	0.038	Nylon	24937-16-4	42	100	2.804%
				Fiber glass	65997-17-3	30		
				Halogenated flame retardant		24		
				Other		4		
6	Case	Ceramic	0.667	Aluminum oxide	1344-28-1	98	100	49.225%
				Other		2		
7	Marking	Glass		Glass	65997-18-4	100	100	
		Total weight	1.355					

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.