




# MATERIAL DECLARATION SHEET

Material #	CMF-SD (Big)	
Product Line	PTC resistors	
Date	08/15/2008	
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	0.674	Barium oxide	1304-28-5	50	100	25.376%
				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	0.014	Silver	7440-22-4	98	100	0.527%
				Other		2		
3	Bottom electrode	Silver	0.012	Silver	7440-22-4	78	100	0.452%
				Zinc	7740-66-6	20		
				Other		2		
4	Terminal	Copper	0.464	Copper	7440-50-8	95	100	17.47%
				Tin	7440-31-5	4		
				Other		1		



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5	Cover	Nylon	0.066	Nylon	24937-16-4	42	100	2.485%
				Fiber glass	65997-17-3	30		
				Halogenated Flame retardant		24		
				Other		4		
6	Case	Ceramic	1.420	Aluminum oxide	1344-28-1	98	100	53.464%
				Other		2		
7	Glue	Epoxy resin	0.006	Epoxy resin	38891-59-7	99	100	0.226%
				Other		1		
8	Marking	Glass		Glass	65997-18-4	100	100	
		Total weight	2.656					

**This document was updated on: August 15, 2008**

**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.