


MATERIAL DECLARATION SHEET



Material Number	CHV-ST 2010			
Product Line	High Voltage Power Chip Resistors			
Compliance Date	04/29/2019			
RoHS Compliant	Yes (Lead Exemption)	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Substrate	21.4686	Aluminum oxide	1344-28-1	96	83.688	87.174
				Silicon dioxide	14808-60-7	4	3.486	
				Magnesium oxide	1309-48-4			
2	Top conductor	Silver	0.3805	Silver	7440-22-4	100	1.545	1.545
3	Bottom conductor	Silver	0.1948	Silver	7440-22-4	100	0.791	0.791
4	Resistor	Ruthenium Oxide	0.2361	Glass	65997-18-4	55.7	0.534	0.959
				Lead-containing glass	7439-92-1	19.3	0.185	
				Ruthenium oxide	12036-10-1	25	0.24	

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5	First encapsulating	Glass	0.2277	Silica	14808-60-7	74	0.685	0.925
				Glass	65997-18-4	12	0.111	
				Aluminum oxide	1344-28-1	6	0.055	
				Chromium III oxide	1308-38-9	8	0.074	
6	Overcoat	Resin	0.5224	Resin	25036-25-3	100	2.121	2.121
7	Side conductor	Silver	0.5031	Silver	7440-22-4	85	1.736	2.042
				Resin	9003-36-5	15	0.306	
8	Plating (Middle)	Nickel	0.4246	Nickel	7440-02-0	100	1.724	1.724
9	Plating (Outer)	Tin	0.6370	Tin	7440-31-5	100	2.587	2.587
10	Marking	Resin	0.0324	Resin	29690-82-2	70	0.093	0.132
				Titanium oxide	1317-80-2	30	0.039	
Total weight			24.6272					

This Document was updated on: 04/29/2019

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemption: 7(c)-1 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.