

MATERIAL DECLARATION SHEET



Material Number	CR1206-PF Series (100ohm above)			
Product Line	Thick Film Resistors (Ultra-low lead content)			
Compliance Date	2017.12.06			
RoHS Compliant	Yes	MSL	1	

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	CR****	7.78997	Aluminum oxide	1344-28-1	96%	87.04%	90.67%
				Silicon dioxide	14808-60-7	4%	3.63%	
2	Conductor Layer	5***	0.14692	Silver	7440-22-4	100%	1.71%	1.71%
3	Resistive Element	R-U	0.09537	Ruthenium oxide	12036-10-1	30%	0.33%	1.11%
				Silver	7440-22-4	45%	0.50%	
				Glass (non-lead)	65997-17-3	25%	0.28%	
4	Over Coating	1***	0.11341	Epoxy	25068-38-6	100%	1.32%	1.32%
5	Marking	ZSR-1**	0.01289	Epoxy	25085-99-8	100%	0.15%	0.15%
6	End Terminal	NI-CR	0.00687	Nickel	7440-02-0	80%	0.06%	0.08%
				Chromium	7440-47-3	20%	0.02%	
7	Ni Plating	Ni	0.23197	Nickel	7440-02-0	100%	2.70%	2.70%
8	Sn Plating	Sn	0.19417	Tin	7440-31-5	100%	2.26%	2.26%
			Total weight	8.59157				

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