

# MATERIAL DECLARATION SHEET



Material Number	CR1206-PF Series (10~100ohm)			
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****	7.78907	Aluminum oxide	1344-28-1	96%	81.96%	85.37%
				Silicon dioxide	14808-60-7	4%	3.41%	
2	Conductor Layer	5***	0.03650	Silver	7440-22-4	100%	0.40%	0.40%
3	Resistive Element	R-U	0.03011	Chromium	7440-47-3	60%	0.20%	0.33%
				Nickel	7440-02-0	40%	0.13%	
4	Over Coating	1***	0.67699	Epoxy	25068-38-6	100%	7.42%	7.42%
5	Marking	ZSR-XXX	0.01095	Epoxy	25085-99-8	100%	0.12%	0.12%
6	End Terminal	NI-CR	0.00821	Nickel	7440-02-0	80%	0.07%	0.09%
				Chromium	7440-47-3	20%	0.02%	
7	Ni Plating	Ni	0.30200	Nickel	7440-02-0	100%	3.31%	3.31%
8	Sn Plating	Sn	0.27007	Tin	7440-31-5	100%	2.96%	2.96%
			Total weight	9.1239				

This Document was updated on: 2017/12/6