


# MATERIAL DECLARATION SHEET



Material Number	CRT0402A Series			
Product Line	Thick Film Chip Resistors			
Compliance Date	2021/06/11			
RoHS Compliant	Yes	MSL	1/2/3	

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	Ceramic	0.42810	Aluminum oxide	1344-28-1	96%	77.97%	81.22%
				Silicon dioxide	14808-60-7	4%	3.25%	
2	Conductor Layer	Ag Alloy	0.00270	Silver	7440-22-4	95%	0.49%	0.51%
				Glass	65997-17-3	5%	0.03%	
3	Resistive Element	Ni-Cr	0.00221	Nickel	7440-02-0	45%	0.19%	0.42%
				Chromium	7440-47-3	55%	0.23%	
4	Over-Coating	Epoxy	0.02419	Epoxy	29690-82-2	100%	4.59%	4.59%
5	Over Coating	Epoxy	0.02651	Epoxy	25068-38-6	100%	5.03%	5.03%
6	End Terminal	Ni-Cr	0.00058	Nickel	7440-02-0	80%	0.09%	0.11%
				Chromium	7440-47-3	20%	0.02%	
7	Ni Plating	Nickel	0.02261	Nickel	7440-02-0	100%	4.29%	4.29%
8	Sn Plating	Tin	0.02018	Tin	7440-31-5	100%	3.83%	3.83%
		Total	0.52708					

This Document was updated on: 2021/06/11

Important remarks: It is the responsibility of the user to verify they are accessing the latest version.