

# MATERIAL DECLARATION SHEET

Material Number	SRN4012TA Series			
Product Line	Power Inductor			
Compliance Date	2024/08/31			
RoHS Compliant	Yes	MSL	Level 1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ferrite body	Ferrite Ni-Zn Series	0.05694	Ferric oxide	1309-37-1	62.000	45.260	73.00
				Nickel oxide	1313-99-1	11.000	8.030	
				Zinc oxide	1314-13-2	20.000	14.600	
				Copper oxide	1317-38-0	7.000	5.110	
2	Copper/ Coating	Copper Wire	0.00936	Copper	7440-50-8	100.000	12.000	15.00
		Copper Colored Coating On The Magnet Wire	0.00234	Polyurethane Resin	26680-22-8	100.000	3.000	
3	Terminal	Silver paste	0.00234	Silver	7440-22-4	73.700	2.211	3.00
				Silicon dioxide	60676-86-0	15.800	0.474	
				Resins	9004-57-3	10.500	0.315	
4	Solder Base	S Nickel Pellets	0.00078	Nickel	7440-02-0	100.000	1.000	1.00
5	Solder	Lead Free Solder	0.00078	Tin	7440-31-5	100.000	1.000	1.00
6	Adhesive	MAGNETIC RESIN	0.00546	Iron	7439-89-6	59.400	4.158	7.00
				Silicon	7440-21-3	2.100	0.147	
				Chromium	7440-47-3	1.000	0.070	
				Polyester Resin	113669-95-7	30.000	2.100	
				Carbon black	1333-86-4	7.500	0.525	
Total weight			0.078					

**This Document was updated on: 2024/08/31**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.