


# MATERIAL DECLARATION SHEET



Material Number	SRN5040 Series			
Product Line	Semi-Shielded SMD Power Inductor			
Compliance Date	2024/5/22			
RoHS Compliant	YES	MSL	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 Core	Ferrite	0.209	Iron oxide (Fe2O3)	1309-37-1	65.00	35.6452%	54.839
				Nickel oxide (NiO)	1313-99-1	13.50	7.4032%	
				Zinc oxide (ZnO)	1314-13-2	16.50	9.0484%	
				Cupric oxide(CuO)	1317-38-0	5.00	2.7419%	
		Plating-Ag	0.002	Silver(Ag)	7440-22-4	100.00	6.7742%	13.548
		Plating-Ni	0.0005	Nickel (Ni)	7440-02-0	100.00	3.3871%	
Plating-Sn	0.0005	Tin (Sn)	7440-31-5	100.00	3.3871%			
2	Wire	COPPER(C11000)	0.084	Copper(Cu)	7440-50-8	99.95%	26.9542%	28.387
				Misc. ,not to declare	\	0.05%	0.0135%	
		Resin	0.004	Polyurethane	9005-54-5	100.00	1.4194%	
3	Solder	Tin	0.0010	Tin (Sn)	7440-31-5	96.50	0.3113%	0.323
				Silver(Ag)	7440-22-4	3.00	0.0097%	
				Copper(Cu)	7440-50-8	0.50	0.0016%	
4	Glue	Ferrite Glue	0.009	Iron oxide (Fe2O3)	1309-37-1	35.00	1.0161%	2.903
				Manganese oxide(MnO)	1344-43-0	7.50	0.2177%	
				Zinc oxide (ZnO)	1314-13-2	2.50	0.0726%	
				Quartz	14808-60-7	35.00	1.0161%	
				Dimethyl Siloxane, Dimethylvinylsiloxyterminated	68083-19-2	20.00	0.5806%	
Total weight			0.31					

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**BOURNS®**

**This Document was updated on:** 2024/5/22

**Important remarks:**

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