


MATERIAL DECLARATION SHEET



Material Number	SRN4018 Series			
Product Line	Semi-Shielded SMD Power Inductor			
Compliance Date	2023/2/2			
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	Core	Ferrite Powder	0.037	Iron oxide (Fe2O3)	1309-37-1	62.0%	20.30%	32.74
				Nickel oxide (NiO)	1313-99-1	10.0%	3.27%	
				Zinc oxide (ZnO)	1314-13-2	18.0%	5.89%	
				Cupric oxide(CuO)	1317-38-0	9.0%	2.95%	
				Silver(Ag)	7440-22-4	0.5%	0.16%	
				Nickel (Ni)	7440-02-0	0.2%	0.07%	
				Tin (Sn)	7440-31-5	0.3%	0.10%	
2	Wire	Copper Wire	0.013	Copper(Cu)	7440-50-8	95.0%	10.93%	11.50
				Polyurethane resin	9009-54-5	5.0%	0.58%	
3	Solder	Tin	0.040	Tin (Sn)	7440-31-5	96.50%	34.16%	35.40
				Silver(Ag)	7440-22-4	3.00%	1.06%	
				Copper(Cu)	7440-50-8	0.50%	0.18%	
4	Glue	Ferrite Glue	0.023	Iron oxide (Fe2O3)	1309-37-1	32.50%	6.61%	20.35
				Manganese oxide(MnO)	1344-43-0	9.50%	1.93%	
				Zinc oxide (ZnO)	1314-13-2	3.10%	0.63%	
				Quartz	14808-60-7	26.90%	5.48%	
				Dimethylvinylated and trimethylated silica	68988-89-6	28.00%	5.70%	
		Total weight	0.113					

This Document was updated on: 2023/2/2

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bourns:](#)

[SRN4018-101M](#) [SRN4018-221M](#) [SRN4018-330M](#) [SRN4018-1R2Y](#) [SRN4018-R82Y](#) [SRN4018-680M](#) [SRN4018-220M](#) [SRN4018-4R7M](#) [SRN4018-470M](#) [SRN4018-6R8M](#) [SRN4018-1R5Y](#) [SRN4018-3R3M](#) [SRN4018-1R0Y](#) [SRN4018-150M](#) [SRN4018-2R2M](#) [SRN4018-151M](#) [SRN4018-2R7M](#) [SRN4018-100M](#) [SRN4018A-100M](#) [SRN4018A-101M](#) [SRN4018A-150M](#) [SRN4018A-220M](#) [SRN4018A-330M](#) [SRN4018A-470M](#) [SRN4018A-4R7M](#) [SRN4018A-6R8M](#) [SRN4018-331M](#)