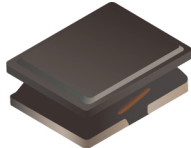


# MATERIAL DECLARATION SHEET

# BOURNS®

SRN2	SRN2512 SERIES			
Product Line	Power Inductor			
Compliance Date	Since inception			
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 body	Ferrite Ni-Zn Series	0.022995	Iron 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	Circuit-Copper	Copper Wire	0.00378	Copper	7440-50-8	96.500	14.475	15.00
3	Circuit-Coating	Polyurethane-Based Insulation Varnish	0.000945	Polyamideimide Resin	31957-38-1	3.500	0.525	
4	Terminal	Silver paste	0.000945	Silver	7440-22-4	100.000	3.000	3.00
5	Solder Base	Nickel	0.000315	Nickel	7440-02-0	100.000	1.000	1.00
6	Solder	Lead Free Solder	0.000315	Tin	7440-31-5	100.000	1.000	1.00
7	Adhesive	Adhesive	0.0011025	Dimethyl siloxane, dimethylvinyl-terminated	68083-19-2	45.000	1.575	3.50
				Silicon dioxide	14808-60-7	35.000	1.225	
				Dimethylvinylated and trimethylated silica	68988-89-6	15.000	0.525	
				Methyl hydro siloxane	68037-59-2	3.000	0.105	
				Siloxanes and Silicones, Me vinyl, hydroxy-terminated, reaction products with trimethoxy[3-(oxiranylmethoxy)propyl]silane	73891-89-1	1.000	0.035	
		Carbon black	1333-86-4	1.000	0.035			
Conformal Coating	0.0011025	Dimethyl siloxane, dimethylvinyl-terminated	68083-19-2	89.000	3.115	3.50		
		Methyl hydro siloxane	68037-59-2	10.000	0.350			
		Dimethylvinylated and trimethylated silica	68988-89-6	1.000	0.035			
Total weight			0.0315					

**This Document was updated on: 2013/11/19**

### Important remarks:

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