

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	SRN4012T Series			
Product Line	Power Inductor			
Compliance Date	2014/11/06			
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	0.0559472	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	0.0091968	Copper	7440-50-8	100.000	14.700	15.00
		Copper Colored Coating On The Magnet Wire	0.0022992	Polyurethane Resin	26680-22-8	100.000	0.300	
3	Terminal	Silver paste_DP4303W	0.0022992	Silver	7440-22-4	100.000	3.000	3.00
4	Solder Base	Nickel	0.0007664	Nickel	7440-02-0	100.000	1.000	1.00
5	Solder	Lead Free Solder	0.0007664	Tin	7440-31-5	100.000	1.000	1.00
6	Adhesive	MAGNETIC RESIN	0.0053648	Iron	7439-89-6	46.900	3.283	7.00
				Silicon	7440-21-3	2.100	0.147	
				Chromium	7440-47-3	1.000	0.070	
				Styrene	100-42-5	12.500	0.875	
				Polyester Resin	113669-95-7	30.000	2.100	
				Carbon black	1333-86-4	7.500	0.525	
Total weight			0.07664					

This Document was updated on: 2026/3/09

Important remarks:

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