

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	SRN4018BTA Series (-151M, -221M)			
Product Line	Power Inductor			
Compliance Date	2025/08/13			
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	0.0710115	Ferric oxide	1309-37-1	62.000	41.931	67.63
				Nickel oxide	1313-99-1	11.000	7.439	
				Zinc oxide	1314-13-2	20.000	13.526	
				Copper oxide	1317-38-0	7.000	4.734	
2	Copper/ Coating	ELEKTRISOLA COPPER BARE WIRE (Cu)	0.02058	Copper	7440-50-8	100.000	19.600	20.93
		ELEKTRISOLA POLYESTERIMIDE-BASED INSULATION VARNISH	0.0013965	Polyesterimide	37317-16-1	100.000	1.330	
3	Terminal-Ag	Silver paste	0.0023625	Silver	7440-22-4	73.700	1.658	2.25
				Silicon dioxide	60676-86-0	15.800	0.356	
				Resins	9004-57-3	10.500	0.236	
4	Terminal-Ni	S Nickel Pellets	0.0002625	Nickel	7440-02-0	100.000	0.250	0.25
5	Terminal-Sn	Lead Free Solder	0.0002625	Tin	7440-31-5	100.000	0.250	0.25
6	Solder	Lead-Free Solder Bar	0.000462	Tin	7440-31-5	99.300	0.437	0.44
				Copper	7440-50-8	0.700	0.003	
7	Adhesive	MAGNETIC RESIN	0.0086205	Iron	7439-89-6	59.400	4.877	8.21
				Silicon	7440-21-3	2.100	0.172	
				Chromium	7440-47-3	1.000	0.082	
				Polyester Resin	113669-95-7	30.000	2.463	
				Carbon black	1333-86-4	7.500	0.616	
8	Marking	Hitachi IJ Printer INK	0.000042	ChromeIII-Complex Dye	117527-94-3	100.000	0.040	0.04
Total weight			0.105					

This Document was updated on: 2025/08/13

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