

# MATERIAL DECLARATION SHEET

Material Number	SRN5020TA-Series			
Product Line	Power Inductor			
Compliance Date	2017/12/07			
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	0.1176762	Iron 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	Copper Wire	0.0357048	Copper	7440-50-8	100.000	20.520	20.93
		Coating On The Magnet Wire_SFHW	0.0007134	Polyurethane Resin	26680-22-8	100.000	0.410	
3	Terminal-Ag	Silver paste_DP4303W	0.003915	Silver	7440-22-4	73.684	1.658	2.25
				Glass frit (non-lead)	65997-18-2	15.790	0.355	
				Resins	9004-57-3	10.526	0.237	
4	Terminal-Ni	Nickel	0.000435	Nickel	7440-02-0	100.000	0.250	0.25
5	Terminal-Sn	Lead Free Solder	0.000435	Tin	7440-31-5	100.000	0.250	0.25
6	Solder	Lead-Free Solder Bar	0.0007656	Tin	7440-31-5	99.300	0.437	0.44
				Copper	7440-50-8	0.700	0.003	
7	Adhesive	Adhesive	0.0142854	Iron	7439-89-6	46.900	3.850	8.21
				Silicon	7440-21-3	2.100	0.172	
				Chromium	7440-47-3	1.000	0.082	
				Styrene	100-42-5	12.500	1.026	
				Polyester Resin	113669-95-7	30.000	2.463	
				Carbon black	1333-86-4	7.500	0.616	
8	Marking	Hitachi J Printer INK	0.0000696	Misc not to declare	N/A	5.000	0.002	0.04
				Carbon black	1333-86-4	95.000	0.038	
Total weight			<b>0.174</b>					

**This Document was updated on: 2017/12/07**

**Important remarks:**

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