

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	DR331-104AE			
Product Line	SMD Line Filter			
Compliance Date	2025 / 12 /17			
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	0.064	Iron oxide (Fe ₂ O ₃)	1309-37-1	71.0%	16.8296	23.7
				Manganese oxide(MnO)	1344-43-0	18.0%	4.2667	
				Zinc oxide (ZnO)	1314-13-2	11.0%	2.6075	
2	Wire	Copper (C11000)	0.0295	Copper(Cu)	7440-50-8	99.95%	10.9278	11.11
				Misc. ,not to declare	\	0.05%	0.0055	
		Resin	0.0005	Polyurethane	51852-81-4	77.5%	0.1378	
				Polyamide Resin	9009-54-5	22.5%	0.04	
3	Case	PM	0.15	Phenol formaldehyde resin	9003-35-4	35.0%	19.4444	55.56
				Glass Fiber	65997-17-3	55.0%	30.5556	
				Kaolin, calcined	92704-41-1	5.0%	2.7778	
				Fatty acids, tallow,hydrogenated	61790-38-3	2.5%	1.3889	
				carbon black	1333-86-4	2.5%	1.3889	
		C5191	0.01	Copper (Cu)	7440-50-8	92.99%	3.4441	3.7
				Iron(Fe)	7439-89-6	0.01%	0.0004	
				Tin (Sn)	7440-31-5	7.0%	0.2593	

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		Plating	0.002	Tin (Sn)	7440-31-5	100%	0.5923	0.74
				Nickel (Ni)	7440-02-0	100%	0.1481	
4	Adhesive	Epoxy	0.01	Bisphenol A Epoxy Resin	25068-38-6	64.9%	2.4037	3.71
				Epoxy thinning agent	68609-97-2	5.3%	0.1963	
				carbon black	1333-86-4	5.3%	0.1963	
				Aluminium hydroxide	21645-51-2	24.5%	0.9074	
5	Solder bar	Tin	0.002	Tin (Sn)	7440-31-5	96.5%	0.7148	0.74
				Silver(Ag)	7440-22-4	3.0%	0.0222	
				Copper (Cu)	7440-50-8	0.5%	0.0037	
6	Solder bar	Tin	0.001	Tin (Sn)	7440-31-5	99%	0.3667	0.37
				Silver(Ag)	7440-22-4	0.5%	0.0019	
				Copper(Cu)	7440-50-8	0.5%	0.0019	
7	Varnish	Varnish	0.001	Synthetic resin	63148-69-6	100%	0.3704	0.37
Total weight			0.27					

This Document was updated on: 2025 / 12 / 17

Important remarks:

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