

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	PM104SH (470, 221, 331)			
Product Line	Shielded SMD Power Inductor			
Compliance Date	2017/10/18			
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	DR CORE	Ferrite	0.43	Iron oxide (Fe ₂ O ₃)	1309-37-1	63.0	21.50	34.13
				Nickel oxide (NiO)	1313-99-1	12.0	4.10	
				Zinc oxide (ZnO)	1314-13-2	20.0	6.83	
				Cupric oxide(CuO)	1317-38-0	5.0	1.71	
2	RI CORE	Ferrite	0.55	Iron oxide (Fe ₂ O ₃)	1309-37-1	62.0	27.06	43.65
				Nickel oxide (NiO)	1313-99-1	11.0	4.80	
				Zinc oxide (ZnO)	1314-13-2	20.0	8.73	
				Cupric oxide(CuO)	1317-38-0	7.0	3.06	
3	WIRE	Copper	0.2423	Copper(Cu)	7440-50-8	99.95	19.22	20.24
			0.01275	Misc. ,not to declare	\	0.05	0.010	
				Modified Polyester Resin	9009-54-5	100	1.01	
4	Adhesive	Epoxy	0.01	Bisphenol A Epoxy Resin	25068-38-6	58.0	0.46	0.79
				Epoxy thinning agent	68609-97-2	4.0	0.03	
				Dicyandiamide	461-58-5	10.0	0.08	
				Carbon Black	1333-86-4	5.0	0.04	
				Aluminum hydroxide	21645-51-2	23.0	0.18	
5	Terminal	Plating	0.005	Silver(Ag)	7440-22-4	46.0	0.18	0.40
				Nickel (Ni)	7440-02-0	18.0	0.07	
				Tin (Sn)	7440-31-5	36.0	0.14	

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6	Solder wire	Tin	0.01	Tin (Sn)	7440-31-5	99.0	0.79	0.79
				Silver(Ag)	7440-22-4	0.5	0.004	
				Copper(Cu)	7440-50-8	0.5	0.004	
		Total weight	1.26					

This Document was updated on: 2017/10/18

Important remarks:

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