


# MATERIAL DECLARATION SHEET



Material Number	DR331-475BE			
Product Line	SMD Line Filter			
Compliance Date	2020/ 08 / 28			
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	A151	0.064	Iron oxide (Fe2O3)	1309-37-1	70.0	16.5925	23.70
				Manganese oxide(MnO)	1344-43-0	15.0	3.5555	
				Zinc oxide (ZnO)	1314-13-2	15.0	3.5555	
2	Wire	2UEWH+NY	0.03	Copper (Cu)	7440-50-8	98.0	10.8889	11.12
				Polyurethane heat resistance	51852-81-4	1.55	0.1722	
				Polyamide Resin	-	0.45	0.0500	
3	Case	PM9630	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	93.6	3.4667	3.70
				Tin (Sn)	7440-31-5	6.2	0.2296	
Phosphorus(P)	7723-14-0			0.2	0.0074			

# MATERIAL DECLARATION SHEET



		Plating	0.002	Tin (Sn)	7440-31-5	80.0	0.5926	0.74
				Nickel (Ni)	7440-02-0	20.0	0.1481	
4	Adhesive	6020H-6-QR-NH	0.01	Bisphenol A Epoxy Resin	25068-38-6	66.0	2.4445	3.70
				Dicyandiamide	461-58-5	6.0	0.2222	
				Carbon Black	1333-86-4	5.0	0.1852	
				Aluminum Hydroxide	21645-51-2	23.0	0.8519	
5	Solder bar	M705	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	0505H	0.001	Tin (Sn)	7440-31-5	99.0	0.3667	0.37
				Silver(Ag)	7440-22-4	0.5	0.0019	
				Copper(Cu)	7440-50-8	0.5	0.0019	
7	Varnish	FS-1320	0.001	Synthetic resin	63148-69-6	100.0	0.1667	0.37
		Total weight	<b>0.27</b>					

**This Document was updated on: 2020 / 08 / 28**

## Important remarks:

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

**Instructions:** [Please note, an example of a completed form follows these instructions.](#)

A Material Declaration sheet is to be completed for each product family or variation of a product family regardless of RoHS compliance status.

The following information is to be placed into the appropriate space on the form:

- 1) Material Group Number (Model number).
- 2) Brief description of the product line (i.e.; Panel Control; Chip Resistor; Line Protection Module, etc.).
- 3) The date the product family was determined to be Rohs compliant, leave blank if no RoHS version is available.
- 4) Yes or No.
- 5) Moisture Sensitivity Rating from J-STD-020C which can be found by going to the Bourns Intranet

# MATERIAL DECLARATION SHEET



- a. Clicking on “Departments”
  - b. Clicking on “Environmental, Health and Safety”
  - c. Clicking on “Product Compliance Documents”
  - d. Clicking on “JEDEC Standards”
  - e. Clicking on “J-STD-020C” to open; scroll to page 13, table 5.1
- 6) Brief text description of the construction element of the product (i.e.; housing, contact spring, terminal, circuit board, etc.).  
Place each element on its own line.
  - 7) Homogeneous Material Description (i.e.; Nylon, Brass, Stainless steel, etc.) no Proprietary information is to be used.
  - 8) The weight, in grams, of the Construction element to four decimal places max.
  - 9) The basic constituents of the homogeneous materials (i.e.; for stainless steel it might be carbon, manganese, silicon, chromium, nickel, iron) each constituent on its own line with in the major line of the homogeneous material.
  - 10) CAS number for each of the constituent materials. A list of substances currently being used can be found in the Outlook Public folders under RoHS Information.
  - 11) The weight of the individual substances from item (9) divided by the total Material weight of item (8) expressed as a percentage. 3 decimal places max. Ranges are acceptable for Non-Hazardous materials – however, use the average of the range for the percentage calculation. For hazardous Materials - use the maximum of the range listed. If the maximum number confirms NON-COMPLIANCE, contact the material supplier for range clarification.
  - 12) The weight of the individual substances from item (9) divided by the total weight of the component (14) expressed as a percentage. 3 decimal places max.
  - 13) The sum of the percentages of item (12) for the construction element (6) expressed as a percentage. 2 decimal places max.
  - 14) The total weight of the component in grams. 4 decimal places max.
  - 15) The actual date the document was created. Month/Day/Year format.
  - 16) Any appropriate notes (i.e, ordering format or suffix requirements).
  - 17) Appropriate Photographs or graphic representation of the product. Usually the same as the data sheet picture.