


# MATERIAL DECLARATION SHEET



Material Number	SDR0805 SERIES(4R7~220, 330~472)			
Product Line	SMD Power Inductor			
Compliance Date	2020/03/16			
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	0.578	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	62.0	44.241	71.36
				Zinc oxide (ZnO)	1314-13-2	20.0	14.272	
				Cupric oxide(CuO)	1317-38-0	10.0	7.136	
				Nickel oxide (NiO)	1313-99-1	8.0	5.709	
2	Winding Wire	Copper	0.206	Copper(Cu)	7440-50-8	95.0	24.160	25.43
				Polyurethane resin	9009-54-5	5.0	1.272	
3	Terminal	Plating	0.015	Silver(Ag)	7440-22-4	46.0	0.852	1.85
				Nickel (Ni)	7440-02-0	18.0	0.333	
				Tin (Sn)	7440-31-5	36.0	0.667	
4	Solder	Tin	0.011	Tin (Sn)	7440-31-5	99.0	1.344	1.36
				Silver(Ag)	7440-22-4	0.5	0.007	
				Copper(Cu)	7440-50-8	0.5	0.007	
			<b>Total weight</b>	<b>0.81</b>				

This Document was updated on: 2020/03/16

### Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. (16)

**Instructions:** Please note, an example of a completed form follows these instructions.

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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
  - 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 it 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.