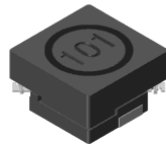


# MATERIAL DECLARATION



Material Number	SRR0603 Series			Place picture here  
Product Line	Shielded SMD Power Inductor			
Compliance Date	2020/11/04			
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 +RI CORE	Ferrite	0.279	Iron oxide (Fe2O3)	1309-37-1	62.0	6.805	68.05
				Cupric Oxide (CuO)	1317-38-0	10.0	13.61	
				Zinc oxide (ZnO)	1314-13-2	20.0	5.444	
				Nickel oxide (NiO)	1313-99-1	8.0	8.11	
2	Wire	Copper	0.035	Copper(Cu)	7440-50-8	95.0	0.427	8.54
				Modified Polyester Resin	-	5.0	11.098	
3	Base	LCP	0.070	Aromatic polyester resin	60088-52-0	65.0	5.805	17.07
				Glass fiber	65997-17-3	34.0	0.171	
				Carbon black	1333-86-4	1.0	0.456	
		Copper	0.002	Copper (Cu)	7440-50-8	93.5	0.03	0.49
				Tin (Sn)	7440-31-5	6.2	0.001	
				Phosphorus(P)	7723-14-0	0.3	0.195	
Plating	0.001	Tin (Sn)	7440-31-5	80.0	0.049	0.24		
		Nickel (Ni)	7440-02-0	20.0	1.463			

# MATERIAL DECLARATION



4	Adhesive	Adhesive	0.012	Epoxy Resin	25085-99-8	50.0	0.205	2.93
				Epoxide Diluent	26761-45-5	7.0	0.175	
				Dicyandiamide	461-58-5	6.0	0.585	
				Calcium carbonate	471-34-1	20.0	0.439	
				Aluminium hydroxide	21645-51-2	15.0	0.059	
				Carbon Black	1333-86-4	2.0	0.446	
5	Adhesive	Adhesive	0.003	Bisphenol A Epoxy Resin	25068-38-6	61.0	0.037	0.73
				Epoxy thinning agent	68609-97-2	5.0	0.044	
				Dicyandiamide	461-58-5	6.0	0.037	
				Carbon black	1333-86-4	5.0	0.168	
				Aluminium hydroxide	21645-51-2	23.0	0.439	
6	Adhesive	Adhesive	0.003	reaction mixture of epichlorohydrin and bis-phenol A	25068-38-6	60.0	0.029	0.73
				Catalyst Blend	-	4.0	0.234	
				Limestone	1317-65-3	32.0	0.029	
				Thermoplastic copolymer	-	4.0	1.22	
7	Solder	Tin	0.005	Tin (Sn)	7440-31-5	100.0	6.805	1.22
		Total weight	<b>0.41</b>					

This Document was updated on: **2020/11/03**

## Important remarks:

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

# MATERIAL DECLARATION



**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
  - 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.

# MATERIAL DECLARATION

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- 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.