


# MATERIAL DECLARATION SHEET



Material Number	8107-RC			
Product Line				
Compliance Date	10-DEC-2024			
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	A10 T25*15*8C	12.06	Iron Oxide	1317-60-8	70%	43.07%	61.53%
				Manganese(II) Oxide	1344-43-0	15%	9.2295%	
				Zinc Oxide	1314-13-2	15%	9.2295%	
2	BASE	PBT-4130 VTM120-4	1.64	PBT resin	26062-94-2	45%	3.765%	8.37%
				Glass Fiber	65997-17-3	30%	2.51%	
				Flame Retardant (C18H16Br4O3)n	68928-70-1	10%	0.836%	
				Flame Retardant (C16H10Br4O3)n	71342-77-3	10%	0.836%	
				Flame Retardant Sb2O3	1309-64-4	3%	0.251%	
				Additives	NA	2%	0.167%	
3	PIN	PIN	0.1	Iron	07439-89-6	69%	0.3519%	0.51%
				Copper	07440-50-8	25%	0.1275%	
				Tin	07440-31-5	6%	0.0306%	

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4	Wire AWG#20 0.813mm Heavy MW28C	Copper	5.45	Copper	7440-50-8	97%	26.97%	27.81%
				Polyurethane	9009-54-5	3%	0.834%	
5	Tape	#44	0.17	Polyester Film	25038-59-9	57%	0.494%	0.87%
				Polyisoprene Rubber	9003-31-0	26%	0.226%	
				Tackifying Resin	68240-09-5	10%	0.087%	
				Titanium Dioxide	13463-67-7	3%	0.026%	
				P-Tert-Butylphenol- Formaldehyde Resin	Trade Secret	3%	0.026%	
				Calcium and Zinc Salts	68188-23-8	1%	0.0087%	
6	Epoxy	3300A-1 LD	0.05	Epoxy resin	24969-06-0	90%	0.2295%	0.255%
				Additives	280-57-9	10%	0.0255%	
7	Epoxy	3300B-1 LD	0.05	Isophoronediamine	2855-13-2	96%	0.2448%	0.255%
				Additives	280-57-9	4%	0.0102%	
8	Sn	100Sn	0.08	Tin	7440-31-5	100%	0.408%	0.408%
		Total weight	19.6					

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This Document was updated on: 26-SEP-2024

## 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.

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.

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- 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.