


# MATERIAL DECLARATION



Material Number	DR221 Series			
Product Line	SMD Line Filter			
Compliance Date	2014/06/05			
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	Ferrite Material	Ferrite	0.015	Iron oxide (Fe2O3)	1309-37-1	60.0%	9.00	15.00%
				Nickel oxide (NiO)	1313-99-1	10.0%	1.50	
				Zinc oxide (ZnO)	1314-13-2	20.0%	3.00	
				Cupric oxide(CuO)	1317-38-0	10.0%	1.50	
2	Winding Wire	Copper	0.012	Copper(Cu)	7440-50-8	98.0%	11.76	12.00%
				Polyurethane	68400-69-9	2.0%	0.24	
3	Base	LCP-	0.046	Aromatic polyester resin	60088-52-0	70.0%	32.20	46.00%
				Glass fiber	65997-17-3	30.0%	13.80	
4	Terminal	Copper	0.01	Copper (Cu)	7440-50-8	93.80%	9.38	10.00%
				Tin (Sn)	7440-31-5	6.00%	0.60	
				Phosphorus(P)	7723-14-0	0.20%	0.02	
5	Adhesive	Adhesive	0.01	Bisphenol A Epoxy Resin	25068-38-6	61.0%	6.1	10.00%
				Alkyl glycidyl ether	68609-97-2	5.0%	0.5	
				Dicyandiamide	461-58-5	6.0%	0.6	
				Carbon Black	1333-86-4	5.0%	0.5	
6	Solder bar	Tin	0.007	Tin (Sn)	7440-31-5	99.0	0.04	7.00%
				Silver(Ag)	7440-22-4	0.5	9.00	
				Copper(Cu)	7440-50-8	0.5	1.50	

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**BOURNS®**

Total weight	0.1
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This Document was updated on: 2014/06/05

**Important remarks:**

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