


# MATERIAL DECLARATION SHEET



Material Number	FRS1013 Series (472KL – 103KL)			
Product Line	Shielded Inductor			
Compliance Date	2016/09/19			
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	C6	1.87	Iron oxide)	1309-37-1	60.0	48.698	81.16
				Zinc oxide	1314-13-2	20.0	16.233	
				Cupric oxide	1317-38-0	10.0	8.116	
				Nickel oxide	1313-99-1	10.0	8.116	
2	WIRE	P180-G2	0.21	Copper	7440-50-8	95.0	8.659	9.11
				Polyurethane resin	9009-54-5	5.0	0.456	
3	Bobbin	PM-3181	0.114	Phenolic Resin	9003-35-4	42.5	2.1	4.90
				Hexamethylene Tetramine	100-97-0	7.5	0.4	
				Wood Flour	-	30.0	1.5	
				Aluminum Silicate	92704-41-1	10.0	0.5	
				Calcium Hydroxide	1305-62-0	4.0	0.2	
				Spirit Black	11099-03-9	4.0	0.2	
				Zinc Stearate	557-05-1	2.0	0.1	
4	Adhesive	TH-213	0.1	Epoxy	25068-38-6	58.0	2.52	4.34
				Alkyl (C12-C14) glycidyl ether	68609-97-2	17.0	0.74	
				2-Methylimidazole	693-98-1	25.0	1.09	

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5	Solder	0505H	0.008	Tin	7440-31-5	99.0	0.344	0.35
				Silver	7440-22-4	0.5	0.344	
				Copper	7440-50-8	0.5	0.002	
6	Ink	Black	0.002	Cyclic isoprene modified phenol	68441-13-4	13.0	0.011	0.09
				Phenolic modified rosin	-	13.0	0.011	
				Alkyd modified linseed oil	-	10.0	0.009	
				Carbon black	1333-86-4	15.0	0.013	
				C.I.Pigment Blue 15 : 3	147-14-8	10.0	0.009	
				C.I.Pigment Red 48 : 3	15782-05-5	7.0	0.006	
				Linseed oil	8001-26-1	15.0	0.013	
				Carbitol derivative	124-17-4	16.0	0.014	
				Co Naphthenate	61789-51-3	1.0	0.001	
		Total weight	2.3					

**This Document was updated on: 2016/09/19**

**Important remarks:**

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