


# MATERIAL DECLARATION



Material Number	PM42S-series			
Product Line	SHIELDED SMD POWER INDUCTOR			
Compliance Date	2009.07.20			
RoHS Compliant	YES	MSL	2	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ferrite Material	F5H	136	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	60	49.2	82
				Nickel oxide (NiO)	1313-99-1	10	8.2	
				Zinc oxide (ZnO)	1314-13-2	20	16.4	
				Copper oxide(CuO)	1317-38-0	10	8.2	
2	Winding Wire	2SFBW	22	Copper (Cu)	7440-50-8	95	12.4	13
				Polyester Resin	N/A	5	0.6	
3	Solder	Lead free-solder	3	Tin (Sn)	7440-31-5	96.5	1.93	2
				Silver (Ag)	7440-22-4	3	0.06	
				Copper (Cu)	7440-50-8	0.5	0.01	
4	Terminal	Ag/Ni/Sn	2	Silver (Ag)	7440-22-4	46	0.46	1
				Nickel (Ni)	7440-02-0	18	0.18	
				Tin (Sn)	7440-31-5	36	0.36	
5	Adhesive	6020H-6-3	3	Bisphenol A Epoxy Resin	25068-38-6	63	1.26	2
				Alkyd glycidyl ether	68609-97-2	3	0.06	
				Methyl imidazole	693-98-1	5	0.1	
				Carbon black	1333-86-4	3	0.06	
				Silicon dioxide	7631-86-9	26	0.52	
		Total weight	166					

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**BOURNS**<sup>®</sup>

This Document was updated on: 2009.07.20

**Important remarks:**

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