


# MATERIAL DECLARATION



Material Number	PM518S -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	F4D	205	Iron oxide (Fe2O3)	1309-37-1	60	48.6	81
				Nickel oxide (NiO)	1313-99-1	10	8.1	
				Zinc oxide (ZnO)	1314-13-2	20	16.2	
				Copper oxide (CuO)	1317-38-0	10	8.1	
2	Winding Wire	P180-G2	35	<b>Copper (Cu)</b>	<b>7440-50-8</b>	<b>95</b>	13.3	14
				Polyurethane resin	9009-54-5	5	0.7	
3	Solder	Lead free-solder	4	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	3	<b>Silver (Ag)</b>	<b>7440-22-4</b>	<b>46</b>	0.46	1
				<b>Nickel (Ni)</b>	<b>7440-02-0</b>	<b>18</b>	0.18	
				<b>Tin (Sn)</b>	<b>7440-31-5</b>	<b>36</b>	0.36	
5	Adhesive	6020H-6-3	4	<b>Bisphenol A Epoxy Resin</b>	<b>25068-38-6</b>	<b>63</b>	1.26	2
				<b>Alkyd glycidyl ether</b>	<b>68609-97-2</b>	<b>3</b>	0.06	
				<b>Methyl imidazole</b>	<b>693-98-1</b>	<b>5</b>	0.1	
				<b>Carbon black</b>	<b>1333-86-4</b>	<b>3</b>	0.06	
				<b>Silicon dioxide</b>	<b>7631-86-9</b>	<b>26</b>	0.52	
		Total weight	251					

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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