



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA16N50C3		<b>Issued</b>		28. August 2013		
<b>MA#</b>		MA001108626						
<b>Package</b>		PG-TO220-3-121		<b>Weight*</b>		2241.49 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	8.240	0.37	0.37	3676	3676
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.61	30.65	306145	306544
wire	non noble metal	aluminium	7429-90-5	2.640	0.12	0.12	1178	1178
encapsulation	organic material	carbon black	1333-86-4	2.197	0.10		980	
	plastics	epoxy resin	-	206.534	9.21		92142	
	inorganic material	silicondioxide	60676-86-0	889.856	39.70	49.01	396992	490115
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3543	3543
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.399	0.02		178	
	noble metal	silver	7440-22-4	0.996	0.04		445	
	non noble metal	tin	7440-31-5	2.591	0.12	0.18	1156	1779
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192778	193029
*deviation	< 10%					Sum in total:	100,00	1000000

### Important Remarks:

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