



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA16N50C3		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA001374584						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2210.60 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	3728	3728
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.81	40.86	408100	408632
wire	non noble metal	aluminium	7429-90-5	3.145	0.14	0.14	1423	1423
encapsulation	organic material	carbon black	1333-86-4	2.325	0.11		1052	
	plastics	epoxy resin	-	214.331	9.70		96956	
	inorganic material	silicondioxide	60676-86-0	920.537	41.63	51.44	416418	514426
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3608	3608
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	758	758
solder	non noble metal	antimony	7440-36-0	0.399	0.02		180	
	noble metal	silver	7440-22-4	0.996	0.05		451	
	non noble metal	tin	7440-31-5	2.591	0.12	0.19	1172	1803
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.55	6.56	65536	65622
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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