



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N60C3		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA001056136						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2246.33 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	7.017	0.31	0.31	3124	3124
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		306	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.55	30.59	305486	305884
wire	non noble metal	aluminium	7429-90-5	6.895	0.31	0.31	3069	3069
encapsulation	organic material	carbon black	1333-86-4	2.231	0.10		993	
	plastics	epoxy resin	-	207.272	9.23		92271	
	inorganic material	silicondioxide	60676-86-0	891.348	39.67	49.00	396801	490066
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3535	3535
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	0.353	0.02		157	
	noble metal	silver	7440-22-4	0.883	0.04		393	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1022	1572
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	19.24	19.27	192363	192614
*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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