



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N60CFD		<b>Issued</b>		12. February 2019		
<b>MA#</b>		MA001371826						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2208.14 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	0.32	0.32	3178	3178
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
wire	non noble metal	copper	7440-50-8	902.149	40.86	40.91	408555	409087
	non noble metal	aluminium	7429-90-5	0.781	0.04	0.04	354	354
encapsulation	organic material	carbon black	1333-86-4	2.305	0.10		1044	
	plastics	epoxy resin	-	214.398	9.71		97094	
leadfinish	inorganic material	silicondioxide	60676-86-0	922.192	41.75	51.56	417631	515769
	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3567	3567
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.353	0.02		160	
	noble metal	silver	7440-22-4	0.883	0.04		400	
heatspreader	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1040	1600
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65609	65695
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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