



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA15N60CFD		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001371852						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2213.41 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	9.195	0.42	0.42	4154	4154
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		408	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	copper	7440-50-8	902.149	40.76	40.81	407584	408114
wire	non noble metal	aluminium	7429-90-5	3.015	0.14	0.14	1362	1362
encapsulation	organic material	carbon black	1333-86-4	2.302	0.10		1040	
	plastics	epoxy resin	-	214.364	9.68		96848	
	inorganic material	silicondioxide	60676-86-0	922.179	41.65	51.43	416632	514520
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3603	3603
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	757	757
solder	non noble metal	antimony	7440-36-0	0.432	0.02		195	
	noble metal	silver	7440-22-4	1.080	0.05		488	
	non noble metal	tin	7440-31-5	2.807	0.13	0.20	1268	1951
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	65453	65539
*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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