



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA20N60C3		<b>Issued</b>		20. July 2018			
<b>MA#</b>		MA000976106							
<b>Package</b>		PG-TO220-3-253		<b>Weight*</b>		2136.37 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	12.312	0.58	0.58	5763	5763	
leadframe	non noble metal	iron	7439-89-6	1.431	0.07		670		
	inorganic material	phosphorus	7723-14-0	0.429	0.02		201		
	non noble metal	copper	7440-50-8	1428.770	66.89	66.98	668783	669654	
wire	non noble metal	aluminium	7429-90-5	30.011	1.40	1.40	14048	14048	
encapsulation	organic material	carbon black	1333-86-4	3.174	0.15		1486		
	plastics	epoxy resin	-	123.791	5.79		57944		
	inorganic material	silicondioxide	60676-86-0	507.860	23.77	29.71	237721	297151	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.00	1.00	10046	10046	
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	826	826	
solder	non noble metal	antimony	7440-36-0	0.537	0.03		251		
	noble metal	silver	7440-22-4	1.342	0.06		628		
	non noble metal	tin	7440-31-5	3.489	0.16	0.25	1633	2512	
*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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