



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N80C3		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001610306						
<b>Package</b>		PG-TO220-3-253		<b>Weight*</b>		2135.76 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	9.366	0.44	0.44	4385	4385
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	66.91	67.00	668972	669846
wire	non noble metal	aluminium	7429-90-5	3.036	0.14	0.14	1421	1421
encapsulation	organic material	carbon black	1333-86-4	3.325	0.16		1557	
	plastics	epoxy resin	-	129.692	6.07		60724	
	inorganic material	silicondioxide	60676-86-0	532.068	24.91	31.14	249124	311405
leadfinish	non noble metal	tin	7440-31-5	21.462	1.00	1.00	10049	10049
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	826	826
solder	non noble metal	antimony	7440-36-0	0.442	0.02		207	
	noble metal	silver	7440-22-4	1.104	0.05		517	
	non noble metal	tin	7440-31-5	2.870	0.13	0.20	1344	2068
heatspreader	non noble metal	copper	7440-50-8	0.000	0.00		1	
	non noble metal	iron	7439-89-6	0.000	0.00		1	
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.00	1	0
*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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