



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N80C3		<b>Issued</b>		27. September 2017			
<b>MA#</b>		MA001408794							
<b>Package</b>		PG-TO220-3-253		<b>Weight*</b>		2136.05 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	66.89	66.98	668883	669754	
wire	non noble metal	aluminium	7429-90-5	3.035	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		60716		
	inorganic material	silicondioxide	60676-86-0	532.069	24.91	31.14	249090	311363	
leadfinish	non noble metal	tin	7440-31-5	21.731	1.02	1.02	10173	10173	
plating	non noble metal	nickel	7440-02-0	1.786	0.08	0.08	836	836	
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	
*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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