



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N80C3		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA000991274						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2241.80 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	0.42	0.42	4178	4178
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.61	30.65	306103	306502
wire	non noble metal	aluminium	7429-90-5	2.673	0.12	0.12	1192	1192
encapsulation	organic material	carbon black	1333-86-4	2.195	0.10		979	
	plastics	epoxy resin	-	206.295	9.20		92022	
	inorganic material	silicondioxide	60676-86-0	888.825	39.64	48.94	396476	489478
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3543	3543
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.442	0.02		197	
	noble metal	silver	7440-22-4	1.104	0.05		492	
	non noble metal	tin	7440-31-5	2.870	0.13	0.20	1280	1969
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192751	193002
*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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