



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N65C3		<b>Issued</b>		2. August 2018		
<b>MA#</b>		MA000522906						
<b>Package</b>		PG-TO220-3-121		<b>Weight*</b>		2249.17 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	7.017	0.31	0.31	3120	3120
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		305	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.51	30.55	305099	305496
wire	non noble metal	aluminium	7429-90-5	0.692	0.03	0.03	308	308
encapsulation	organic material	carbon black	1333-86-4	2.217	0.10		986	
	plastics	epoxy resin	-	208.634	9.28		92760	
	inorganic material	silicondioxide	60676-86-0	899.042	39.97	49.35	399722	493468
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3531	3531
plating	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	136	137
	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
solder	non noble metal	antimony	7440-36-0	0.353	0.02		157	
	noble metal	silver	7440-22-4	0.883	0.04		393	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1021	1571
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		192	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.21	19.24	192119	192369
*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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