



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA03N60C3		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA000462194						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2239.89 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	2.326	0.10	0.10	1038	1038
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	30.64	30.68	306363	306762
wire	non noble metal	aluminium	7429-90-5	0.730	0.03	0.03	326	326
encapsulation	organic material	carbon black	1333-86-4	2.214	0.10		989	
	plastics	epoxy resin	-	208.141	9.29		92925	
	inorganic material	silicondioxide	60676-86-0	896.779	40.04	49.43	400367	494282
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3546	3546
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	0.167	0.01		74	
	noble metal	silver	7440-22-4	0.417	0.02		186	
	non noble metal	tin	7440-31-5	1.084	0.05	0.08	484	744
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.29	19.32	192915	193166
*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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