



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA20N60C3		<b>Issued</b>		2. November 2015		
<b>MA#</b>		MA001425116						
<b>Package</b>		PG-TO220-3-121		<b>Weight*</b>		2239.59 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	12.312	0.55	0.55	5498	5498
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	306406	306805
wire	non noble metal	aluminium	7429-90-5	2.623	0.12	0.12	1171	1171
encapsulation	organic material	carbon black	1333-86-4	2.256	0.10		1007	
	plastics	epoxy resin	-	205.926	9.19		91948	
	inorganic material	silicondioxide	60676-86-0	882.968	39.43	48.72	394254	487210
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3590	3590
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	0.537	0.02		240	
	noble metal	silver	7440-22-4	1.342	0.06		599	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1558	2397
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	19.29	19.32	192942	193193
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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