



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA20N60C3		<b>Issued</b>		4. March 2019		
<b>MA#</b>		MA001368048						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2205.03 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	0.56	0.56	5584	5584
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.91	40.96	409133	409666
	non noble metal	aluminium	7429-90-5	2.978	0.14	0.14	1350	1350
wire	non noble metal	aluminium	7429-90-5	2.978	0.14	0.14	1350	1350
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1054	
	plastics	epoxy resin	-	212.523	9.64		96381	
	inorganic material	silicondioxide	60676-86-0	911.603	41.33	51.08	413420	510855
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3572	3572
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.537	0.02		243	
	noble metal	silver	7440-22-4	1.342	0.06		609	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1582	2434
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65702	65788
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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