



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA11N60CFD		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA000925632						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2241.26 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	3131	3131
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	30.62	30.66	306176	306575
wire	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	352	352
encapsulation	organic material	carbon black	1333-86-4	2.204	0.10		983	
	plastics	epoxy resin	-	207.155	9.24		92428	
	inorganic material	silicondioxide	60676-86-0	892.531	39.82	49.16	398226	491638
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	0.353	0.02		158	
	noble metal	silver	7440-22-4	0.883	0.04		394	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1024	1576
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	192798	193049
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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