



## Material Content Data Sheet



<b>Sales Product Name</b>		SPP11N60C3		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001056104						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2028.20 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	0.35	0.35	3460	3460
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		403	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.21	40.26	402000	402524
wire	non noble metal	aluminium	7429-90-5	6.899	0.34	0.34	3401	3401
encapsulation	organic material	carbon black	1333-86-4	2.324	0.11		1146	
	plastics	epoxy resin	-	67.384	3.32		33223	
	inorganic material	silicondioxide	60676-86-0	511.185	25.20	28.63	252039	286408
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10582	10582
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.353	0.02		174	
	noble metal	silver	7440-22-4	0.883	0.04		435	
	non noble metal	tin	7440-31-5	2.296	0.11	0.17	1132	1741
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290636	291014
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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