



## Material Content Data Sheet



<b>Sales Product Name</b>		SPP20N60C3		<b>Issued</b>		26. September 2017		
<b>MA#</b>		MA001051830						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2030.34 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	0.61	0.61	6064	6064
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.15	40.20	401576	402099
wire	non noble metal	aluminium	7429-90-5	2.752	0.14	0.14	1355	1355
encapsulation	organic material	carbon black	1333-86-4	2.319	0.11		1142	
	plastics	epoxy resin	-	67.252	3.31		33123	
	inorganic material	silicondioxide	60676-86-0	510.188	25.13	28.55	251281	285546
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10703	10703
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	879	879
solder	non noble metal	antimony	7440-36-0	0.537	0.03		265	
	noble metal	silver	7440-22-4	1.344	0.07		662	
	non noble metal	tin	7440-31-5	3.493	0.17	0.27	1721	2648
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	29.03	29.07	290328	290706
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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