



## Material Content Data Sheet



<b>Sales Product Name</b>		SPP24N60C3		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA001054616						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2030.61 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	13.049	0.64	0.64	6426	6426
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	401521	402044
wire	non noble metal	aluminium	7429-90-5	2.648	0.13	0.13	1304	1304
encapsulation	organic material	carbon black	1333-86-4	2.317	0.11		1141	
	plastics	epoxy resin	-	67.185	3.31		33086	
	inorganic material	silicondioxide	60676-86-0	509.678	25.10	28.52	250997	285224
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	noble metal	silver	7440-22-4	1.471	0.07		724	
	non noble metal	antimony	7440-36-0	0.588	0.03		290	
	non noble metal	tin	7440-31-5	3.823	0.19	0.29	1883	2897
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	290289	290667
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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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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