



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP028N08N3 G		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA001299310						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2031.08 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	12.294	0.61	0.61	6053	6053
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	40.14	40.19	401430	401953
wire	non noble metal	aluminium	7429-90-5	8.310	0.41	0.41	4091	4091
encapsulation	organic material	carbon black	1333-86-4	2.300	0.11		1132	
	plastics	epoxy resin	-	66.688	3.28		32834	
	inorganic material	silicondioxide	60676-86-0	505.905	24.91	28.30	249082	283048
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10699	10699
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	879	879
solder	non noble metal	antimony	7440-36-0	0.543	0.03		268	
	noble metal	silver	7440-22-4	1.359	0.07		669	
	non noble metal	tin	7440-31-5	3.533	0.17	0.27	1739	2676
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	29.02	29.06	290223	290601
*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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