



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP039N04L G		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA000768642						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2025.95 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	2.247	0.11	0.11	1109	1109
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	40.23	40.28	402447	402971
wire	non noble metal	aluminium	7429-90-5	5.868	0.29	0.29	2896	2896
encapsulation	organic material	carbon black	1333-86-4	2.345	0.12		1157	
	plastics	epoxy resin	-	67.997	3.36		33563	
	inorganic material	silicondioxide	60676-86-0	515.838	25.46	28.94	254617	289337
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10726	10726
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	881	881
solder	non noble metal	antimony	7440-36-0	0.151	0.01		74	
	noble metal	silver	7440-22-4	0.376	0.02		186	
	non noble metal	tin	7440-31-5	0.978	0.05	0.08	483	743
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	29.10	29.14	290959	291337
*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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