



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP076N12N3 G		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA001263044						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2029.42 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	8.706	0.43	0.43	4290	4290
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	40.18	40.23	401757	402280
wire	non noble metal	aluminium	7429-90-5	8.770	0.43	0.43	4321	4321
encapsulation	organic material	carbon black	1333-86-4	2.311	0.11		1139	
	plastics	epoxy resin	-	67.008	3.30		33018	
	inorganic material	silicondioxide	60676-86-0	508.340	25.05	28.46	250485	284642
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10576	10576
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.443	0.02		218	
	noble metal	silver	7440-22-4	1.108	0.05		546	
	non noble metal	tin	7440-31-5	2.882	0.14	0.21	1420	2184
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	29.05	29.09	290460	290838
*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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