



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP041N04N G		<b>Issued</b>		31. July 2018		
<b>MA#</b>		MA001833494						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2025.62 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	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.23	40.28	402512	403036
	non noble metal	aluminium	7429-90-5	5.573	0.28	0.28	2751	2751
wire	non noble metal	aluminium	7429-90-5	5.573	0.28	0.28	2751	2751
encapsulation	organic material	carbon black	1333-86-4	2.346	0.12		1158	
	plastics	epoxy resin	-	68.027	3.36		33583	
	inorganic material	silicondioxide	60676-86-0	516.065	25.48	28.96	254770	289511
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10595	10595
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871
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	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	291006	291384
*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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