



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP180N10N3 G		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA000819642						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2025.73 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	2.307	0.11	0.11	1139	1139
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	40.25	40.30	402489	403013
wire	non noble metal	aluminium	7429-90-5	3.047	0.15	0.15	1504	1504
encapsulation	organic material	carbon black	1333-86-4	2.354	0.12		1162	
	plastics	epoxy resin	-	68.273	3.37		33703	
	inorganic material	silicondioxide	60676-86-0	517.932	25.57	29.06	255676	290541
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10727	10727
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	881	881
solder	non noble metal	antimony	7440-36-0	0.168	0.01		83	
	noble metal	silver	7440-22-4	0.419	0.02		207	
	non noble metal	tin	7440-31-5	1.089	0.05	0.08	538	828
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	290989	291367
*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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