



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA045N10N3 G		<b>Issued</b>		4. September 2015		
<b>MA#</b>		MA001333160						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2214.24 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	8.861	0.40	0.40	4002	4002
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		408	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	copper	7440-50-8	902.149	40.74	40.79	407430	407960
wire	non noble metal	aluminium	7429-90-5	10.357	0.47	0.47	4678	4678
encapsulation	organic material	carbon black	1333-86-4	2.355	0.11		1063	
	plastics	epoxy resin	-	213.900	9.66		96602	
	inorganic material	silicondioxide	60676-86-0	916.436	41.38	51.15	413882	511547
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3602	3602
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	757	757
solder	non noble metal	antimony	7440-36-0	0.429	0.02		194	
	noble metal	silver	7440-22-4	1.074	0.05		485	
	non noble metal	tin	7440-31-5	2.791	0.13	0.20	1261	1940
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.54	6.55	65428	65514
*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 2011/65/EU (RoHS) and does not use any exemption.

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