



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R180C7		<b>Issued</b>		15. February 2016		
<b>MA#</b>		MA001394056						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2238.37 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	3.951	0.18	0.18	1765	1765
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		404	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		121	
	non noble metal	copper	7440-50-8	902.149	40.30	40.35	403039	403564
wire	non noble metal	aluminium	7429-90-5	30.178	1.35	1.35	13482	13482
encapsulation	organic material	carbon black	1333-86-4	2.314	0.10		1034	
	plastics	epoxy resin	-	215.321	9.62		96196	
	inorganic material	silicondioxide	60676-86-0	926.184	41.38	51.10	413775	511005
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3563	3563
plating	non noble metal	nickel	7440-02-0	1.676	0.07	0.07	749	749
solder	non noble metal	antimony	7440-36-0	0.238	0.01		107	
	noble metal	silver	7440-22-4	0.596	0.03		266	
	non noble metal	tin	7440-31-5	1.550	0.07	0.11	692	1065
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		65	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	copper	7440-50-8	144.874	6.47	6.48	64723	64807
*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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