



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R190P6		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA001367830						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2238.31 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	8.148	0.36	0.36	3640	3640
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		121	
	non noble metal	iron	7439-89-6	0.903	0.04		404	
	non noble metal	copper	7440-50-8	902.149	40.30	40.35	403050	403575
	non noble metal	aluminium	7429-90-5	2.812	0.13	0.13	1256	1256
wire	non noble metal	aluminium	7429-90-5	2.812	0.13	0.13	1256	1256
encapsulation	organic material	carbon black	1333-86-4	2.376	0.11		1062	
	plastics	epoxy resin	-	219.594	9.81		98107	
	inorganic material	silicondioxide	60676-86-0	943.509	42.17	52.09	421528	520697
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3519	3519
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	740	740
solder	non noble metal	antimony	7440-36-0	0.395	0.02		176	
	noble metal	silver	7440-22-4	0.987	0.04		441	
	non noble metal	tin	7440-31-5	2.567	0.11	0.17	1147	1764
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	iron	7439-89-6	0.145	0.01		65	
	non noble metal	copper	7440-50-8	144.874	6.47	6.48	64725	64809
*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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