



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R160P6		<b>Issued</b>		24. January 2018		
<b>MA#</b>		MA001642178						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2250.15 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	9.747	0.43	0.43	4332	4332
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		120	
	non noble metal	iron	7439-89-6	0.903	0.04		401	
	non noble metal	copper	7440-50-8	902.149	40.09	40.14	400930	401451
	non noble metal	aluminium	7429-90-5	2.938	0.13	0.13	1306	1306
wire	non noble metal	aluminium	7429-90-5	2.938	0.13	0.13	1306	1306
encapsulation	organic material	carbon black	1333-86-4	2.424	0.11		1077	
	plastics	epoxy resin	-	221.687	9.85		98521	
	inorganic material	silicondioxide	60676-86-0	950.884	42.27	52.23	422589	522187
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3501	3501
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	736	736
solder	non noble metal	antimony	7440-36-0	0.455	0.02		202	
	noble metal	silver	7440-22-4	1.136	0.05		505	
	non noble metal	tin	7440-31-5	2.955	0.13	0.20	1313	2020
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	iron	7439-89-6	0.145	0.01		64	
	non noble metal	copper	7440-50-8	144.874	6.44	6.45	64384	64467
*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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