



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R080P7		<b>Issued</b>		19. January 2018		
<b>MA#</b>		MA002039094						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2240.02 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	7.931	0.35	0.35	3540	3540
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		121	
	non noble metal	iron	7439-89-6	0.903	0.04		403	
	non noble metal	copper	7440-50-8	902.149	40.27	40.32	402741	403265
	non noble metal	aluminium	7429-90-5	2.917	0.13	0.13	1302	1302
wire	non noble metal	aluminium	7429-90-5	2.917	0.13	0.13	1302	1302
encapsulation	organic material	carbon black	1333-86-4	2.386	0.11		1065	
	plastics	epoxy resin	-	220.010	9.82		98218	
	inorganic material	silicondioxide	60676-86-0	944.975	42.20	52.13	421860	521143
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3516	3516
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	739	739
solder	non noble metal	antimony	7440-36-0	0.389	0.02		174	
	noble metal	silver	7440-22-4	0.972	0.04		434	
	non noble metal	tin	7440-31-5	2.526	0.11	0.17	1128	1736
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	64675	64759
*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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