



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA80R360P7		<b>Issued</b>		25. January 2018		
<b>MA#</b>		MA001634680						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2226.21 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	4.140	0.19	0.19	1860	1860
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	iron	7439-89-6	0.903	0.04		406	
	non noble metal	copper	7440-50-8	902.149	40.52	40.57	405240	405768
	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1330	1330
wire	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1330	1330
encapsulation	organic material	carbon black	1333-86-4	2.343	0.11		1052	
	plastics	epoxy resin	-	218.108	9.80		97973	
	inorganic material	silicondioxide	60676-86-0	938.277	42.15	52.06	421469	520494
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3538	3538
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	744	744
solder	non noble metal	antimony	7440-36-0	0.246	0.01		110	
	noble metal	silver	7440-22-4	0.615	0.03		276	
	non noble metal	tin	7440-31-5	1.598	0.07	0.11	718	1104
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		65	
	non noble metal	copper	7440-50-8	144.874	6.51	6.52	65077	65162
*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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