



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA65R045C7		<b>Issued</b>		4. July 2019	
<b>MA#</b>				MA001624840					
<b>Package</b>				PG-TO220-3-313		<b>Weight*</b>		2199.41 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	15.501	0.70	0.70	7048	7048	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		411		
	non noble metal	copper	7440-50-8	902.149	41.01	41.06	410179	410713	
	non noble metal	aluminium	7429-90-5	8.740	0.40	0.40	3974	3974	
wire	non noble metal	aluminium	7429-90-5	8.740	0.40	0.40	3974	3974	
encapsulation	organic material	carbon black	1333-86-4	2.353	0.11		1070		
	plastics	epoxy resin	-	210.227	9.56		95583		
	inorganic material	silicondioxide	60676-86-0	898.188	40.84	50.51	408377	505030	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3581	3581	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	753	753	
solder	non noble metal	antimony	7440-36-0	0.648	0.03		295		
	noble metal	silver	7440-22-4	1.619	0.07		736		
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1914	2945	
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	iron	7439-89-6	0.145	0.01		66		
	non noble metal	copper	7440-50-8	144.874	6.59	6.60	65870	65956	
*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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