



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA65R310CFD		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA001367834						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2223.76 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	6.035	0.27	0.27	2714	2714
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	40.57	40.62	405686	406214
	non noble metal	aluminium	7429-90-5	2.970	0.13	0.13	1336	1336
wire	non noble metal	aluminium	7429-90-5	2.970	0.13	0.13	1336	1336
encapsulation	organic material	carbon black	1333-86-4	2.317	0.10		1042	
	plastics	epoxy resin	-	216.986	9.76		97576	
	inorganic material	silicondioxide	60676-86-0	934.322	42.04	51.90	420155	518773
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3542	3542
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	745	745
solder	non noble metal	antimony	7440-36-0	0.321	0.01		144	
	noble metal	silver	7440-22-4	0.802	0.04		361	
	non noble metal	tin	7440-31-5	2.086	0.09	0.14	938	1443
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	65148	65233
*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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