



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA65R190CFD		<b>Issued</b>		10. August 2018		
<b>MA#</b>		MA003261102						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2205.10 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	9.459	0.43	0.43	4290	4290
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.91	40.96	409119	409652
	non noble metal	aluminium	7429-90-5	2.895	0.13	0.13	1313	1313
wire	non noble metal	aluminium	7429-90-5	2.895	0.13	0.13	1313	1313
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1054	
	plastics	epoxy resin	-	213.184	9.67		96677	
	inorganic material	silicondioxide	60676-86-0	914.892	41.48	51.26	414899	512630
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3572	3572
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.442	0.02		201	
	noble metal	silver	7440-22-4	1.106	0.05		502	
	non noble metal	tin	7440-31-5	2.876	0.13	0.20	1304	2007
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	6.57	6.58	65699	65785
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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