



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA65R420CFD		<b>Issued</b>		25. September 2017		
<b>MA#</b>		MA001042636						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2240.70 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	4.901	0.22	0.22	2187	2187
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.63	30.67	306253	306652
wire	non noble metal	aluminium	7429-90-5	0.708	0.03	0.03	316	316
encapsulation	organic material	carbon black	1333-86-4	2.209	0.10		986	
	plastics	epoxy resin	-	207.607	9.27		92652	
	inorganic material	silicondioxide	60676-86-0	894.475	39.92	49.29	399193	492832
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3544	3544
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.277	0.01		124	
	noble metal	silver	7440-22-4	0.692	0.03		309	
	non noble metal	tin	7440-31-5	1.799	0.08	0.12	803	1236
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192846	193097
*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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