



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA65R190C7		<b>Issued</b>		1. August 2018		
<b>MA#</b>		MA002256766						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2207.10 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	4.186	0.19	0.19	1896	1896
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.87	40.92	408749	409281
	non noble metal	aluminium	7429-90-5	2.894	0.13	0.13	1311	1311
wire	non noble metal	aluminium	7429-90-5	2.894	0.13	0.13	1311	1311
encapsulation	organic material	carbon black	1333-86-4	2.308	0.10		1046	
	plastics	epoxy resin	-	214.549	9.72		97209	
	inorganic material	silicondioxide	60676-86-0	922.754	41.82	51.64	418085	516340
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3569	3569
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.249	0.01		113	
	noble metal	silver	7440-22-4	0.621	0.03		282	
	non noble metal	tin	7440-31-5	1.616	0.07	0.11	732	1127
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	6.56	6.57	65640	65726
*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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