



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA65R190C7		<b>Issued</b>		1. August 2018		
<b>MA#</b>		MA001638920						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2227.29 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	1879	1879
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	40.50	40.55	405043	405571
	non noble metal	aluminium	7429-90-5	2.894	0.13	0.13	1299	1299
wire	non noble metal	aluminium	7429-90-5	2.894	0.13	0.13	1299	1299
encapsulation	organic material	carbon black	1333-86-4	2.348	0.11		1054	
	plastics	epoxy resin	-	218.345	9.80		98032	
	inorganic material	silicondioxide	60676-86-0	939.112	42.18	52.09	421639	520725
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3537	3537
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	743	743
solder	non noble metal	antimony	7440-36-0	0.249	0.01		112	
	noble metal	silver	7440-22-4	0.621	0.03		279	
	non noble metal	tin	7440-31-5	1.616	0.07	0.11	725	1116
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	6.50	6.51	65045	65130
*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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