



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA90R800C3		<b>Issued</b>		12. February 2019		
<b>MA#</b>		MA001371398						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2206.72 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	6.653	0.30	0.30	3015	3015
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	40.88	40.93	408819	409351
	non noble metal	aluminium	7429-90-5	1.698	0.08	0.08	770	770
wire	non noble metal	aluminium	7429-90-5	1.698	0.08	0.08	770	770
encapsulation	organic material	carbon black	1333-86-4	2.314	0.10		1048	
	plastics	epoxy resin	-	214.185	9.71		97060	
	inorganic material	silicondioxide	60676-86-0	920.534	41.70	51.51	417150	515258
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.342	0.02		155	
	noble metal	silver	7440-22-4	0.855	0.04		387	
	non noble metal	tin	7440-31-5	2.222	0.10	0.16	1007	1549
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	65651	65737
*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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