



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA80R310CE		<b>Issued</b>		22. January 2018			
<b>MA#</b>		MA001354050							
<b>Package</b>		PG-TO220-3-312		<b>Weight*</b>		2059.52 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	12.969	0.63	0.63	6297	6297	
leadframe	non noble metal	iron	7439-89-6	0.949	0.05		461		
	inorganic material	phosphorus	7723-14-0	0.285	0.01		138		
	non noble metal	copper	7440-50-8	947.445	46.00	46.06	460031	460630	
wire	non noble metal	aluminium	7429-90-5	30.100	1.46	1.46	14615	14615	
encapsulation	organic material	carbon black	1333-86-4	10.510	0.51		5103		
	plastics	epoxy resin	-	168.153	8.16		81647		
	inorganic material	silicondioxide	60676-86-0	872.294	42.35	51.02	423542	510292	
leadfinish	non noble metal	tin	7440-31-5	11.234	0.55	0.55	5454	5454	
solder	non noble metal	antimony	7440-36-0	0.559	0.03		271		
	noble metal	silver	7440-22-4	1.396	0.07		678		
	non noble metal	tin	7440-31-5	3.630	0.18	0.28	1763	2712	
*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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