



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R280CE		<b>Issued</b>		19. January 2018			
<b>MA#</b>		MA001664388							
<b>Package</b>		PG-TO220-3-312		<b>Weight*</b>		2057.09 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	4.825	0.23	0.23	2345	2345	
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	46.07	46.13	460574	461173	
wire	non noble metal	aluminium	7429-90-5	3.094	0.15	0.15	1504	1504	
encapsulation	organic material	carbon black	1333-86-4	10.867	0.53		5283		
	plastics	epoxy resin	-	173.867	8.45		84521		
	inorganic material	silicondioxide	60676-86-0	901.933	43.84	52.82	438450	528254	
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5393	5393	
solder	non noble metal	antimony	7440-36-0	0.274	0.01		133		
	noble metal	silver	7440-22-4	0.684	0.03		333		
	non noble metal	tin	7440-31-5	1.779	0.09	0.13	865	1331	
*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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