



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R520CP		<b>Issued</b>		20. July 2018			
<b>MA#</b>		MA001510322							
<b>Package</b>		PG-TO220-3-317		<b>Weight*</b>		2113.26 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	3.934	0.19	0.19	1862	1862	
leadframe	non noble metal	iron	7439-89-6	1.202	0.06		569		
	inorganic material	phosphorus	7723-14-0	0.361	0.02		171		
	non noble metal	copper	7440-50-8	1200.685	56.82	56.90	568168	568908	
wire	non noble metal	aluminium	7429-90-5	8.030	0.38	0.38	3800	3800	
encapsulation	organic material	carbon black	1333-86-4	8.843	0.42		4185		
	plastics	epoxy resin	-	142.735	6.75		67543		
	inorganic material	silicondioxide	60676-86-0	737.194	34.88	42.05	348842	420570	
leadfinish	non noble metal	tin	7440-31-5	7.889	0.37	0.37	3733	3733	
solder	non noble metal	antimony	7440-36-0	0.238	0.01		113		
	noble metal	silver	7440-22-4	0.595	0.03		282		
	non noble metal	tin	7440-31-5	1.548	0.07	0.11	732	1127	
*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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