



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R380CE		<b>Issued</b>		1. August 2018		
<b>MA#</b>		MA001816496						
<b>Package</b>		PG-TO220-3-312		<b>Weight*</b>		2053.42 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	3.808	0.19	0.19	1855	1855
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		139	
	non noble metal	iron	7439-89-6	0.949	0.05		462	
wire	non noble metal	copper	7440-50-8	947.445	46.14	46.20	461398	461999
	non noble metal	aluminium	7429-90-5	0.808	0.04	0.04	394	394
encapsulation	organic material	carbon black	1333-86-4	12.444	0.61		6060	
	plastics	epoxy resin	-	175.653	8.55		85542	
leadfinish	inorganic material	silicondioxide	60676-86-0	898.613	43.76	52.92	437618	529220
	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5403	5403
solder	non noble metal	antimony	7440-36-0	0.232	0.01		113	
	noble metal	silver	7440-22-4	0.579	0.03		282	
*deviation	non noble metal	tin	7440-31-5	1.506	0.07	0.11	734	1129
	< 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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