



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R520E6		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001501276						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2216.93 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	3.425	0.15	0.15	1545	1545
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		407	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	copper	7440-50-8	902.149	40.69	40.74	406938	407467
wire	non noble metal	aluminium	7429-90-5	7.878	0.36	0.36	3553	3553
encapsulation	organic material	carbon black	1333-86-4	2.305	0.10		1040	
	plastics	epoxy resin	-	215.517	9.72		97215	
	inorganic material	silicondioxide	60676-86-0	927.731	41.87	51.69	418477	516732
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3553	3553
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	747	747
solder	non noble metal	antimony	7440-36-0	0.215	0.01		97	
	noble metal	silver	7440-22-4	0.537	0.02		242	
	non noble metal	tin	7440-31-5	1.397	0.06	0.09	630	969
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		65	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.53	6.54	65349	65434
*deviation	< 10%					Sum in total:	100.00	1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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