



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R190P6		<b>Issued</b>		22. January 2018		
<b>MA#</b>		MA001137976						
<b>Package</b>		PG-TO220-3-253		<b>Weight*</b>		2135.35 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	8.148	0.38	0.38	3816	3816
leadframe	non noble metal	iron	7439-89-6	1.431	0.07		670	
	inorganic material	phosphorus	7723-14-0	0.429	0.02		201	
	non noble metal	copper	7440-50-8	1428.770	66.90	66.99	669103	669974
wire	non noble metal	aluminium	7429-90-5	2.847	0.13	0.13	1333	1333
encapsulation	organic material	carbon black	1333-86-4	3.333	0.16		1561	
	plastics	epoxy resin	-	129.978	6.09		60869	
	inorganic material	silicondioxide	60676-86-0	533.242	24.97	31.22	249721	312151
leadfinish	non noble metal	tin	7440-31-5	21.462	1.01	1.01	10051	10051
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	826	826
solder	non noble metal	antimony	7440-36-0	0.395	0.02		185	
	noble metal	silver	7440-22-4	0.987	0.05		462	
	non noble metal	tin	7440-31-5	2.567	0.12	0.19	1202	1849
*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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