



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R190E6		<b>Issued</b>		4. July 2019		
<b>MA#</b>		MA005341148						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2206.48 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	0.37	0.37	3693	3693
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.89	40.94	408863	409395
	non noble metal	aluminium	7429-90-5	2.812	0.13	0.13	1275	1275
wire	non noble metal	aluminium	7429-90-5	2.812	0.13	0.13	1275	1275
encapsulation	organic material	carbon black	1333-86-4	2.313	0.10		1048	
	plastics	epoxy resin	-	213.611	9.68		96811	
	inorganic material	silicondioxide	60676-86-0	917.732	41.58	51.36	415925	513784
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.395	0.02		179	
	noble metal	silver	7440-22-4	0.987	0.04		447	
	non noble metal	tin	7440-31-5	2.567	0.12	0.18	1163	1789
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65658	65744
*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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