



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R180C7		<b>Issued</b>		31. July 2018		
<b>MA#</b>		MA002182490						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2207.35 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	3.951	0.18	0.18	1790	1790
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	40.87	40.92	408701	409233
	non noble metal	aluminium	7429-90-5	2.996	0.14	0.14	1358	1358
wire	non noble metal	aluminium	7429-90-5	2.996	0.14	0.14	1358	1358
encapsulation	organic material	carbon black	1333-86-4	2.305	0.10		1044	
	plastics	epoxy resin	-	214.605	9.72		97223	
	inorganic material	silicondioxide	60676-86-0	923.192	41.82	51.64	418235	516502
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3569	3569
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.238	0.01		108	
	noble metal	silver	7440-22-4	0.596	0.03		270	
	non noble metal	tin	7440-31-5	1.550	0.07	0.11	702	1080
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	6.56	6.57	65632	65718
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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