



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R099P6		<b>Issued</b>		22. January 2018		
<b>MA#</b>		MA001725634						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2239.41 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	15.501	0.69	0.69	6922	6922
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		121	
	non noble metal	iron	7439-89-6	0.903	0.04		403	
	non noble metal	copper	7440-50-8	902.149	40.29	40.34	402853	403377
	non noble metal	aluminium	7429-90-5	2.966	0.13	0.13	1324	1324
wire	non noble metal	aluminium	7429-90-5	2.966	0.13	0.13	1324	1324
encapsulation	organic material	carbon black	1333-86-4	2.332	0.10		1041	
	plastics	epoxy resin	-	217.628	9.72		97181	
	inorganic material	silicondioxide	60676-86-0	936.585	41.83	51.65	418230	516452
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3517	3517
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	739	739
solder	non noble metal	antimony	7440-36-0	0.648	0.03		289	
	noble metal	silver	7440-22-4	1.619	0.07		723	
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1880	2892
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	iron	7439-89-6	0.145	0.01		65	
	non noble metal	copper	7440-50-8	144.874	6.47	6.48	64693	64777
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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