



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R099C7		<b>Issued</b>		27. September 2017		
<b>MA#</b>		MA001394034						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2236.02 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	6.630	0.30	0.30	2965	2965
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		404	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		121	
	non noble metal	copper	7440-50-8	902.149	40.35	40.40	403463	403988
wire	non noble metal	aluminium	7429-90-5	29.141	1.30	1.30	13033	13033
encapsulation	organic material	carbon black	1333-86-4	2.328	0.10		1041	
	plastics	epoxy resin	-	214.629	9.60		95987	
	inorganic material	silicondioxide	60676-86-0	921.816	41.21	50.91	412258	509286
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3567	3567
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.343	0.02		154	
	noble metal	silver	7440-22-4	0.858	0.04		384	
	non noble metal	tin	7440-31-5	2.231	0.10	0.16	998	1536
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		65	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	copper	7440-50-8	144.874	6.48	6.49	64791	64875
*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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