



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R199CP		<b>Issued</b>		4. July 2019	
<b>MA#</b>				MA001334368					
<b>Package</b>				PG-TO220-3-313		<b>Weight*</b>		2205.52 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	8.809	0.40	0.40	3994	3994	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		410		
	non noble metal	copper	7440-50-8	902.149	40.90	40.95	409040	409573	
	non noble metal	aluminium	7429-90-5	2.958	0.13	0.13	1341	1341	
wire	non noble metal	aluminium	7429-90-5	2.958	0.13	0.13	1341	1341	
encapsulation	organic material	carbon black	1333-86-4	2.320	0.11		1052		
	plastics	epoxy resin	-	213.353	9.67		96736		
	inorganic material	silicondioxide	60676-86-0	915.967	41.53	51.31	415306	513094	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3571	3571	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751	
solder	non noble metal	antimony	7440-36-0	0.420	0.02		190		
	noble metal	silver	7440-22-4	1.049	0.05		476		
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1237	1903	
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	65687	65773	
*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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