



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R099P6		<b>Issued</b>		27. September 2017	
<b>MA#</b>				MA001138000					
<b>Package</b>				PG-TO220-3-111		<b>Weight*</b>		2270.49 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	0.68	0.68	6827	6827	
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		303		
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91		
	non noble metal	copper	7440-50-8	686.221	30.22	30.26	302235	302629	
wire	non noble metal	aluminium	7429-90-5	27.374	1.21	1.21	12056	12056	
encapsulation	organic material	carbon black	1333-86-4	2.209	0.10		973		
	plastics	epoxy resin	-	205.748	9.06		90618		
	inorganic material	silicondioxide	60676-86-0	885.147	38.98	48.14	389848	481440	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3498	3498	
plating	non noble metal	nickel	7440-02-0	0.305	0.01		134		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	134	
solder	non noble metal	antimony	7440-36-0	0.648	0.03		285		
	noble metal	silver	7440-22-4	1.619	0.07		713		
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1854	2852	
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191		
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57		
	non noble metal	copper	7440-50-8	432.110	19.03	19.06	190316	190564	
*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

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com