



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R280P6		<b>Issued</b>		25. January 2018		
<b>MA#</b>		MA001614150						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2219.47 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	5.826	0.26	0.26	2625	2625
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		407	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	copper	7440-50-8	902.149	40.65	40.70	406472	407001
wire	non noble metal	aluminium	7429-90-5	2.946	0.13	0.13	1327	1327
encapsulation	organic material	carbon black	1333-86-4	2.297	0.10		1035	
	plastics	epoxy resin	-	216.114	9.74		97372	
	inorganic material	silicondioxide	60676-86-0	931.250	41.97	51.81	419583	517990
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3549	3549
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	746	746
solder	non noble metal	antimony	7440-36-0	0.312	0.01		140	
	noble metal	silver	7440-22-4	0.779	0.04		351	
	non noble metal	tin	7440-31-5	2.025	0.09	0.14	912	1403
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		65	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.53	6.54	65274	65359
*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

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