



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R199CP		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA000375026						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2268.37 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	0.39	0.39	3883	3883
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	30.25	30.29	302518	302912
wire	non noble metal	aluminium	7429-90-5	27.368	1.21	1.21	12065	12065
encapsulation	organic material	carbon black	1333-86-4	2.220	0.10		979	
	plastics	epoxy resin	-	207.011	9.13		91260	
	inorganic material	silicondioxide	60676-86-0	890.733	39.25	48.48	392674	484914
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3501	3501
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	0.420	0.02		185	
	noble metal	silver	7440-22-4	1.049	0.05		462	
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1202	1849
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	19.05	19.08	190494	190742
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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