



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA041N04N G		<b>Issued</b>		19. July 2018		
<b>MA#</b>		MA001214818						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2243.45 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	2.247	0.10	0.10	1002	1002
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		306	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.59	30.63	305878	306276
wire	non noble metal	aluminium	7429-90-5	5.838	0.26	0.26	2602	2602
encapsulation	organic material	carbon black	1333-86-4	2.234	0.10		996	
	plastics	epoxy resin	-	208.131	9.28		92773	
	inorganic material	silicondioxide	60676-86-0	895.461	39.91	49.29	399144	492914
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3540	3540
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.150	0.01		67	
	noble metal	silver	7440-22-4	0.376	0.02		167	
	non noble metal	tin	7440-31-5	0.977	0.04	0.07	435	669
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.26	19.29	192610	192861
*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