



Material Content Data Sheet



Sales Product Name				IPP048N04N G		Issued		25. September 2017	
MA#				MA000648516					
Package				PG-TO220-3-1		Weight*		2030.23 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	1.734	0.09	0.09	854	854	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.15	40.20	401597	402120	
wire	non noble metal	aluminium	7429-90-5	4.784	0.24	0.24	2357	2357	
encapsulation	organic material	carbon black	1333-86-4	5.941	0.29		2926		
	plastics	epoxy resin	-	112.884	5.56		55601		
	inorganic material	silicondioxide	60676-86-0	475.300	23.41	29.26	234112	292639	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10571	10571	
plating	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
solder	non noble metal	antimony	7440-36-0	0.125	0.01		61		
	noble metal	silver	7440-22-4	0.312	0.02		154		
	non noble metal	tin	7440-31-5	0.811	0.04	0.07	400	615	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290345	290723	
*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