



Material Content Data Sheet



Sales Product Name				IPA041N04N G		Issued		24. January 2018	
MA#				MA001214818					
Package				PG-TO220-3-111		Weight*		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

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