



Material Content Data Sheet



Sales Product Name				IPP041N04N G		Issued		24. January 2018	
MA#				MA000725842					
Package				PG-TO220-3-1		Weight*		2030.63 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	0.11	0.11	1106	1106	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	iron	7439-89-6	0.816	0.04		402		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401518	402041	
	non noble metal	aluminium	7429-90-5	5.804	0.29	0.29	2858	2858	
wire	non noble metal	aluminium	7429-90-5	5.804	0.29	0.29	2858	2858	
encapsulation	organic material	carbon black	1333-86-4	5.927	0.29		2919		
	plastics	epoxy resin	-	112.620	5.55		55461		
	inorganic material	silicondioxide	60676-86-0	474.189	23.35	29.19	233519	291899	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
solder	non noble metal	antimony	7440-36-0	0.150	0.01		74		
	noble metal	silver	7440-22-4	0.376	0.02		185		
	non noble metal	tin	7440-31-5	0.977	0.05	0.08	481	740	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		291		
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290288	290666	
*deviation	< 10%			Sum in total:		100.00		1000000	

Important Remarks:

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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