



Material Content Data Sheet



Sales Product Name				IKP20N65F5		Issued		19. July 2018	
MA#				MA001133422					
Package				PG-TO220-3-1		Weight*		2030.47 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	1.700	0.08	0.08	837	837	
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	401549	402073	
wire	non noble metal	aluminium	7429-90-5	4.794	0.24	0.24	2361	2361	
encapsulation	organic material	carbon black	1333-86-4	5.941	0.29		2926		
	plastics	epoxy resin	-	112.872	5.56		55589		
	inorganic material	silicondioxide	60676-86-0	475.250	23.41	29.26	234058	292573	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10570	10570	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.158	0.01		78		
	noble metal	silver	7440-22-4	0.395	0.02		195		
	non noble metal	tin	7440-31-5	1.027	0.05	0.08	506	779	
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	290309	290687	
*deviation	< 10%					Sum in total:	100.00		1000000

Important Remarks:

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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