



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP320N20N3 G		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA000811764					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2032.92 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	6.322	0.31	0.31	3110	3110	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.10	40.15	401065	401587	
wire	non noble metal	aluminium	7429-90-5	6.452	0.32	0.32	3174	3174	
encapsulation	organic material	carbon black	1333-86-4	5.883	0.29		2894		
	plastics	epoxy resin	-	111.780	5.50		54985		
	inorganic material	silicondioxide	60676-86-0	470.653	23.15	28.94	231517	289396	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10557	10557	
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	0.349	0.02		172		
	noble metal	silver	7440-22-4	0.873	0.04		429		
	non noble metal	tin	7440-31-5	2.270	0.11	0.17	1116	1717	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.00	29.04	289961	290338	
*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