



Material Content Data Sheet



Sales Product Name				IPP111N15N3 G		Issued		20. July 2018	
MA#				MA001155862					
Package				PG-TO220-3-1		Weight*		2035.47 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	10.752	0.53	0.53	5283	5283	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.07	40.12	400562	401083	
wire	non noble metal	aluminium	7429-90-5	11.190	0.55	0.55	5497	5497	
encapsulation	organic material	carbon black	1333-86-4	5.801	0.28		2850		
	plastics	epoxy resin	-	110.214	5.41		54147		
	inorganic material	silicondioxide	60676-86-0	464.057	22.80	28.49	227985	284982	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10544	10544	
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	400561	120	
solder	non noble metal	antimony	7440-36-0	0.512	0.03		252		
	noble metal	silver	7440-22-4	1.281	0.06		629		
	non noble metal	tin	7440-31-5	3.331	0.16	0.25	1636	2517	
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	28.96	29.00	289597	289974	
*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