



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP023N10N5		<b>Issued</b>		4. March 2019		
<b>MA#</b>		MA001633548						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2039.02 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	7.046	0.35	0.35	3456	3456
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.98	40.03	399866	400386
	non noble metal	aluminium	7429-90-5	10.836	0.53	0.53	5314	5314
wire	non noble metal	aluminium	7429-90-5	10.836	0.53	0.53	5314	5314
encapsulation	organic material	carbon black	1333-86-4	8.800	0.43		4316	
	plastics	epoxy resin	-	96.804	4.75		47476	
	inorganic material	silicondioxide	60676-86-0	481.086	23.59	28.77	235940	287732
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10526	10526
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	tin	7440-31-5	0.122	0.01		60	
	noble metal	silver	7440-22-4	0.153	0.01		75	
	non noble metal	lead	7439-92-1	5.834	0.29	0.31	2861	2996
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.91	28.95	289093	289469
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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