



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP45N06S4-09		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001039180					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2036.91 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	2.120	0.10	0.10	1041	1041	
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	40.05	40.10	400278	400800	
wire	non noble metal	aluminium	7429-90-5	28.928	1.42	1.42	14202	14202	
encapsulation	organic material	carbon black	1333-86-4	8.630	0.42		4237		
	plastics	epoxy resin	-	94.934	4.66		46607		
	inorganic material	silicondioxide	60676-86-0	471.792	23.16	28.24	231621	282465	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10537	10537	
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	noble metal	silver	7440-22-4	0.054	0.00		27		
	non noble metal	tin	7440-31-5	0.043	0.00		21		
	non noble metal	lead	7439-92-1	2.074	0.10	0.10	1018	1066	
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	28.94	28.98	289392	289769	
*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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