



Material Content Data Sheet



Sales Product Name				IPP120N04S4-02		Issued		24. January 2018	
MA#				MA001043560					
Package				PG-TO220-3-1		Weight*		2047.67 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	4.984	0.24	0.24	2434	2434	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		399		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	39.83	39.88	398175	398695	
wire	non noble metal	aluminium	7429-90-5	110.106	5.38	5.38	53771	53771	
encapsulation	organic material	carbon black	1333-86-4	7.508	0.37		3666		
	plastics	epoxy resin	-	82.584	4.03		40331		
	inorganic material	silicondioxide	60676-86-0	410.419	20.04	24.44	200432	244429	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10481	10481	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		119		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	119	
solder	noble metal	silver	7440-22-4	0.093	0.00		46		
	non noble metal	tin	7440-31-5	0.075	0.00		37		
	non noble metal	lead	7439-92-1	3.568	0.17	0.17	1743	1826	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		288		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		86		
	non noble metal	copper	7440-50-8	589.466	28.79	28.83	287871	288245	
*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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