



## Material Content Data Sheet



<b>Sales Product Name</b>		IDH16G120C5		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001349736						
<b>Package</b>		PG-TO220-2-1		<b>Weight*</b>		2001.01 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	1.487	0.07		743	
	noble metal	gold	7440-57-5	0.134	0.01		67	
	non noble metal	tin	7440-31-5	0.035	0.00	0.08	17	827
leadframe	non noble metal	iron	7439-89-6	0.753	0.04		376	
	inorganic material	phosphorus	7723-14-0	0.226	0.01		113	
	non noble metal	copper	7440-50-8	751.797	37.58	37.63	375708	376198
wire	non noble metal	aluminium	7429-90-5	1.170	0.06	0.06	585	585
encapsulation	organic material	carbon black	1333-86-4	1.281	0.06		640	
	plastics	epoxy resin	-	58.909	2.94		29439	
	inorganic material	silicondioxide	60676-86-0	580.123	28.99	31.99	289915	319994
leadfinish	non noble metal	tin	7440-31-5	14.668	0.73	0.73	7330	7330
plating	non noble metal	nickel	7440-02-0	0.198	0.01		99	
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.01	1	99
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		295	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		88	
	non noble metal	copper	7440-50-8	589.466	29.46	29.50	294584	294967
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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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 does not use any exemption

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com