



## Material Content Data Sheet



<b>Sales Product Name</b>		IDH20G120C5		<b>Issued</b>		20. July 2018			
<b>MA#</b>		MA001349744							
<b>Package</b>		PG-TO220-2-1		<b>Weight*</b>		2001.23 mg			
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	noble metal	gold	7440-57-5	0.189	0.01		94		
	non noble metal	tin	7440-31-5	0.049	0.00		24		
	inorganic material	silicon	7440-21-3	2.092	0.10	0.11	1045	1163	
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	37.56	37.61	375668	376158	
wire	non noble metal	aluminium	7429-90-5	2.506	0.13	0.13	1252	1252	
	encapsulation	organic material	carbon black	1333-86-4	1.277	0.06		638	
		plastics	epoxy resin	-	58.744	2.94		29354	
	inorganic material	silicondioxide	60676-86-0	578.498	28.91	31.91	289072	319064	
leadfinish	non noble metal	tin	7440-31-5	14.668	0.73	0.73	7329	7329	
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	294552	294935	
*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

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