



## Material Content Data Sheet



<b>Sales Product Name</b>		IDH02SG120		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA000623048						
<b>Package</b>		PG-TO220-2-1		<b>Weight*</b>		1966.27 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	1.227	0.06		624	
	noble metal	gold	7440-57-5	0.037	0.00		19	
	non noble metal	tin	7440-31-5	0.010	0.00	0.06	5	648
leadframe	non noble metal	iron	7439-89-6	0.753	0.04		383	
	inorganic material	phosphorus	7723-14-0	0.226	0.01		115	
	non noble metal	copper	7440-50-8	751.797	38.24	38.29	382345	382844
wire	non noble metal	aluminium	7429-90-5	0.621	0.03	0.03	316	316
encapsulation	organic material	carbon black	1333-86-4	9.098	0.46		4627	
	plastics	epoxy resin	-	100.073	5.09		50895	
	inorganic material	silicondioxide	60676-86-0	497.333	25.29	30.84	252931	308453
leadfinish	non noble metal	tin	7440-31-5	14.668	0.75	0.75	7460	7460
plating	non noble metal	nickel	7440-02-0	0.198	0.01		101	
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.01	1	101
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		300	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		90	
	non noble metal	copper	7440-50-8	589.466	29.98	30.02	299788	300178
*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

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