



## Material Content Data Sheet



<b>Sales Product Name</b>		IHW20N120R3		<b>Issued</b>		11. April 2016		
<b>MA#</b>		MA001063542						
<b>Package</b>		PG-TO247-3-44		<b>Weight*</b>		6056.02 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	5.199	0.09	0.09	858	858
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		87	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87363	87476
wire	non noble metal	aluminium	7429-90-5	80.766	1.33	1.33	13337	13337
encapsulation	organic material	carbon black	1333-86-4	19.340	0.32		3194	
	plastics	epoxy resin	-	367.458	6.07		60677	
	inorganic material	silicondioxide	60676-86-0	1547.193	25.55	31.94	255481	319352
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5263	5263
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4799	4799
solder	non noble metal	antimony	7440-36-0	0.288	0.00		48	
	noble metal	silver	7440-22-4	0.720	0.01		119	
	non noble metal	tin	7440-31-5	1.873	0.03	0.04	309	476
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		568	
	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	copper	7440-50-8	3438.006	56.76	56.84	567700	568439
*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 2011/65/EU (RoHS) and does not use any exemption.

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