



## Material Content Data Sheet



<b>Sales Product Name</b>		IHW20N120R3		<b>Issued</b>		21. September 2015		
<b>MA#</b>		MA001409976						
<b>Package</b>		PG-TO247-3-41		<b>Weight*</b>		6048.45 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	860	860
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87472	87586
wire	non noble metal	aluminium	7429-90-5	8.489	0.14	0.14	1404	1404
encapsulation	organic material	carbon black	1333-86-4	19.979	0.33		3303	
	plastics	epoxy resin	-	379.609	6.28		62761	
	inorganic material	silicondioxide	60676-86-0	1598.353	26.43	33.04	264258	330322
leadfinish	non noble metal	tin	7440-31-5	32.273	0.53	0.53	5336	5336
plating	non noble metal	nickel	7440-02-0	29.428	0.49	0.49	4865	4865
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	310	477
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		569	
	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	copper	7440-50-8	3438.006	56.83	56.91	568410	569150
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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