



Material Content Data Sheet



Sales Product Name		IHW20N120R5		Issued		31. January 2019		
MA#		MA002218998						
Package		PG-TO247-3-44		Weight*		6046.81 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	4.384	0.07	0.07	725	725
leadframe	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	iron	7439-89-6	0.530	0.01		88	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87495	87609
	non noble metal	aluminium	7429-90-5	4.093	0.07	0.07	677	677
wire	non noble metal	aluminium	7429-90-5	4.093	0.07	0.07	677	677
encapsulation	organic material	carbon black	1333-86-4	20.026	0.33		3312	
	plastics	epoxy resin	-	380.490	6.29		62924	
	inorganic material	silicondioxide	60676-86-0	1602.063	26.49	33.11	264943	331179
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5271	5271
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4807	4807
solder	non noble metal	antimony	7440-36-0	0.257	0.00		43	
	noble metal	silver	7440-22-4	0.643	0.01		106	
	non noble metal	tin	7440-31-5	1.672	0.03	0.04	276	425
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.86	56.94	568567	569307
*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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