

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IHW20N140R5L	**Issued**	17. July 2023
MA#	MA005909140		
Package	PG-TO247-3-41	**Weight***	6047.37 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	3.675	0.061	0.061	608	608
leadframe	inorganic material	phosphorus	7723-14-0	0.159	0.003	8.760	26	87601
	non noble metal	iron	7439-89-6	0.530	0.009		88	
	non noble metal	copper	7440-50-8	529.068	8.749		87487	
wire	non noble metal	aluminium	7429-90-5	5.199	0.086	0.086	860	860
encapsulation	organic material	carbon black	1333-86-4	15.024	0.248	33.125	2484	331251
	organic material	phenol formaldehyde resin	9003-35-4	83.533	1.381		13813	
	non noble metal	metal hydroxide	-	183.693	3.038		30376	
	plastics	epoxy resin	29690-82-2	273.437	4.522		45216	
	inorganic material	silicondioxide	60676-86-0	1,447.512	23.936		239362	
leadfinish	non noble metal	tin	7440-31-5	31.874	0.527	0.527	5271	5271
plating	non noble metal	nickel	7440-02-0	29.065	0.481	0.481	4806	4806
solder	non noble metal	antimony	7440-36-0	0.212	0.004	0.035	35	350
	noble metal	silver	7440-22-4	0.530	0.009		88	
	non noble metal	tin	7440-31-5	1.377	0.023		228	
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.017	56.925	171	569253
	non noble metal	iron	7439-89-6	3.442	0.057		569	
	non noble metal	copper	7440-50-8	3,438.006	56.851		568513	
*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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