



Material Content Data Sheet



Halogen-Free

Sales Product Name IHW20N120R5

Issued

14. February 2022

MA# MA005619392

Package PG-TO247-3-41

Weight*

6047.81 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			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	87481	87595
wire	non noble metal	aluminium	7429-90-5	5.093	0.08	0.08	842	842
encapsulation	organic material	carbon black	1333-86-4	20.026	0.33		3311	
	plastics	epoxy resin	-	380.490	6.29		62914	
	inorganic material	silicondioxide	60676-86-0	1,602.063	26.49	33.11	264900	331125
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5270	5270
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4806	4806
solder	non noble metal	antimony	7440-36-0	0.257			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	3,438.006	56.85	56.93	568472	569212
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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