



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPW65R190CFD	Issued	31. March 2021
MA#	MA001039162		
Package	PG-TO247-3-41	Weight*	6050.10 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	9.459	0.16	0.16	1563	1563
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	8.74	8.75	87448	87562
wire	non noble metal	aluminium	7429-90-5	5.230	0.09	0.09	864	864
encapsulation	organic material	carbon black	1333-86-4	19.978	0.33		3302	
	plastics	epoxy resin	-	379.583	6.27		62740	
	inorganic material	silicondioxide	60676-86-0	1,598.243	26.42	33.02	264169	330211
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5268	5268
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4804	4804
solder	non noble metal	antimony	7440-36-0	0.442	0.01		73	
	noble metal	silver	7440-22-4	1.106	0.02		183	
	non noble metal	tin	7440-31-5	2.876	0.05	0.08	475	731
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	56.81	56.89	568257	568997
*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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