



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW65R420CFD

Issued

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MA# MA005618064

Package PG-TO247-3-41

Weight*

6047.04 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	4.901	0.08	0.08	810	810
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	87492	87606
wire	non noble metal	aluminium	7429-90-5	1.602	0.03	0.03	265	265
encapsulation	organic material	carbon black	1333-86-4	20.046	0.33		3315	
	plastics	epoxy resin	-	380.872	6.30		62985	
	inorganic material	silicondioxide	60676-86-0	1,603.670	26.52	33.15	265200	331500
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	4806	4806
solder	non noble metal	antimony	7440-36-0	0.277			46	
	noble metal	silver	7440-22-4	0.692	0.01		114	
	non noble metal	tin	7440-31-5	1.799	0.03	0.04	298	458
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	568544	569284
*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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