



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP65R150CFD	Issued	16. April 2021
MA#	MA005405895		
Package	PG-TO220-3-123	Weight*	2039.51 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	11.566	0.57	0.57	5671	5671
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.98	40.03	399770	400290
wire	non noble metal	aluminium	7429-90-5	3.080	0.15	0.15	1510	1510
encapsulation	organic material	carbon black	1333-86-4	2.949	0.14		1446	
	miscellaneous	miscellaneous	-	2.949	0.14		1446	
	organic material	phenol formaldehyde resin	9003-35-4	35.389	1.74		17352	
	inorganic material	silicondioxide	14808-60-7	47.186	2.31		23136	
	non noble metal	metal hydroxide	-	47.186	2.31		23136	
	plastics	epoxy resin	29690-82-2	70.778	3.47		34704	
	inorganic material	silicondioxide	60676-86-0	383.384	18.80	28.91	187978	289198
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10523	10523
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.519	0.03		254	
	noble metal	silver	7440-22-4	1.298	0.06		636	
	non noble metal	tin	7440-31-5	3.374	0.17	0.26	1654	2544
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.90	28.94	289023	289399
*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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