



Material Content Data Sheet



Sales Product Name		IPP65R420CFD		Issued		10. August 2018		
MA#		MA003366098						
Package		PG-TO220-3-1		Weight*		2031.46 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	0.24	0.24	2412	2412
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401352	401875
	non noble metal	aluminium	7429-90-5	0.726	0.04	0.04	358	358
wire	non noble metal	aluminium	7429-90-5	0.726	0.04	0.04	358	358
encapsulation	organic material	carbon black	1333-86-4	5.947	0.29		2928	
	plastics	epoxy resin	-	112.999	5.56		55624	
	inorganic material	silicondioxide	60676-86-0	475.785	23.42	29.27	234208	292760
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.277	0.01		136	
	noble metal	silver	7440-22-4	0.692	0.03		341	
	non noble metal	tin	7440-31-5	1.799	0.09	0.13	886	1363
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.02	29.06	290168	290546
*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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