



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP65R420CFD		<b>Issued</b>		25. September 2017	
<b>MA#</b>				MA001039714					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		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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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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