



Material Content Data Sheet



Sales Product Name				IPP65R660CFD		Issued		25. September 2017	
MA#				MA001040840					
Package				PG-TO220-3-1		Weight*		2030.67 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	3.294	0.16	0.16	1622	1622	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401509	402033	
wire	non noble metal	aluminium	7429-90-5	0.716	0.04	0.04	353	353	
encapsulation	organic material	carbon black	1333-86-4	5.962	0.29		2936		
	plastics	epoxy resin	-	113.284	5.58		55786		
	inorganic material	silicondioxide	60676-86-0	476.985	23.49	29.36	234890	293612	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.209	0.01		103		
	noble metal	silver	7440-22-4	0.523	0.03		258		
	non noble metal	tin	7440-31-5	1.361	0.07	0.11	670	1031	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290282	290660	
*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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