



Material Content Data Sheet



Sales Product Name				IPP65R310CFD		Issued		19. July 2018	
MA#				MA001042644					
Package				PG-TO220-3-1		Weight*		2032.25 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	6.035	0.30	0.30	2970	2970	
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	40.12	40.17	401196	401720	
wire	non noble metal	aluminium	7429-90-5	2.940	0.14	0.14	1447	1447	
encapsulation	organic material	carbon black	1333-86-4	5.917	0.29		2912		
	plastics	epoxy resin	-	112.429	5.53		55322		
	inorganic material	silicondioxide	60676-86-0	473.384	23.29	29.11	232936	291170	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10561	10561	
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	0.321	0.02		158		
	noble metal	silver	7440-22-4	0.802	0.04		395		
	non noble metal	tin	7440-31-5	2.086	0.10	0.16	1026	1579	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290056	290433	
*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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