



Material Content Data Sheet



Sales Product Name				IPP65R150CFD		Issued		27. September 2017	
MA#				MA001038682					
Package				PG-TO220-3-1		Weight*		2034.67 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	11.566	0.57	0.57	5684	5684	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		401		
	non noble metal	copper	7440-50-8	815.335	40.07	40.12	400719	401240	
	non noble metal	aluminium	7429-90-5	2.561	0.13	0.13	1259	1259	
wire	non noble metal	aluminium	7429-90-5	2.561	0.13	0.13	1259	1259	
encapsulation	organic material	carbon black	1333-86-4	5.870	0.29		2885		
	plastics	epoxy resin	-	111.534	5.48		54817		
	inorganic material	silicondioxide	60676-86-0	469.616	23.08	28.85	230807	288509	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10548	10548	
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	0.519	0.03		255		
	noble metal	silver	7440-22-4	1.298	0.06		638		
	non noble metal	tin	7440-31-5	3.374	0.17	0.26	1658	2551	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	28.97	29.01	289711	290088	
*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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