



Material Content Data Sheet



Sales Product Name		IPP65R310CFD		Issued		27. September 2017		
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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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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