



Material Content Data Sheet



Sales Product Name		IPP65R110CFD		Issued		10. August 2018		
MA#		MA003277936						
Package		PG-TO220-3-1		Weight*		2036.37 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	15.501	0.76	0.76	7612	7612
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	40.04	40.09	400386	400907
	non noble metal	aluminium	7429-90-5	2.837	0.14	0.14	1393	1393
wire	non noble metal	aluminium	7429-90-5	2.837	0.14	0.14	1393	1393
encapsulation	organic material	carbon black	1333-86-4	5.832	0.29		2864	
	plastics	epoxy resin	-	110.811	5.44		54416	
	inorganic material	silicondioxide	60676-86-0	466.573	22.91	28.64	229120	286400
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10540	10540
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	0.648	0.03		318	
	noble metal	silver	7440-22-4	1.619	0.08		795	
	non noble metal	tin	7440-31-5	4.210	0.21	0.32	2068	3181
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	28.95	28.99	289469	289846
*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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