



Material Content Data Sheet



Sales Product Name				IPA65R310CFD		Issued		19. January 2018	
MA#				MA000916084					
Package				PG-TO220-3-111		Weight*		2253.89 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	0.27	0.27	2678	2678	
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91		
	non noble metal	iron	7439-89-6	0.687	0.03		305		
	non noble metal	copper	7440-50-8	686.221	30.45	30.49	304461	304857	
	non noble metal	aluminium	7429-90-5	2.659	0.12	0.12	1180	1180	
wire	non noble metal	aluminium	7429-90-5	2.659	0.12	0.12	1180	1180	
encapsulation	organic material	carbon black	1333-86-4	2.238	0.10		993		
	plastics	epoxy resin	-	209.527	9.30		92962		
	inorganic material	silicondioxide	60676-86-0	902.187	40.02	49.42	400280	494235	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3524	3524	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	135	136	
solder	non noble metal	antimony	7440-36-0	0.321	0.01		142		
	noble metal	silver	7440-22-4	0.802	0.04		356		
	non noble metal	tin	7440-31-5	2.086	0.09	0.14	925	1423	
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58		
	non noble metal	iron	7439-89-6	0.433	0.02		192		
	non noble metal	copper	7440-50-8	432.110	19.17	19.20	191717	191967	
*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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