



Material Content Data Sheet



Sales Product Name		IPA65R310CFD		Issued		31. July 2018		
MA#		MA000916084						
Package		PG-TO220-3-111		Weight*		2237.28 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	2698	2698
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	iron	7439-89-6	0.687	0.03		307	
	non noble metal	copper	7440-50-8	686.221	30.67	30.71	306722	307121
	non noble metal	aluminium	7429-90-5	2.659	0.12	0.12	1188	1188
wire	non noble metal	aluminium	7429-90-5	2.659	0.12	0.12	1188	1188
encapsulation	organic material	carbon black	1333-86-4	2.231	0.10		997	
	plastics	epoxy resin	-	206.688	9.24		92384	
	inorganic material	silicondioxide	60676-86-0	888.423	39.71	49.05	397099	490480
leadfinish	non noble metal	tin	7440-31-5	7.942	0.36	0.36	3550	3550
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	136	137
solder	non noble metal	antimony	7440-36-0	0.321	0.01		143	
	noble metal	silver	7440-22-4	0.802	0.04		359	
	non noble metal	tin	7440-31-5	2.086	0.09	0.14	932	1434
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.31	19.34	193141	193392
*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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