



Material Content Data Sheet



Sales Product Name		IPA65R310CFD		Issued		19. July 2018		
MA#		MA001042642						
Package		PG-TO220-3-111		Weight*		2240.91 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	2693	2693
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.62	30.66	306225	306624
wire	non noble metal	aluminium	7429-90-5	2.712	0.12	0.12	1210	1210
encapsulation	organic material	carbon black	1333-86-4	2.202	0.10		983	
	plastics	epoxy resin	-	206.972	9.24		92361	
	inorganic material	silicondioxide	60676-86-0	891.742	39.80	49.14	397937	491282
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3544	3544
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.321	0.01		143	
	noble metal	silver	7440-22-4	0.802	0.04		358	
	non noble metal	tin	7440-31-5	2.086	0.09	0.14	931	1432
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	19.28	19.31	192828	193079
*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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