



Material Content Data Sheet



Sales Product Name				IPA65R660CFD		Issued		12. February 2019	
MA#				MA001371810					
Package				PG-TO220-3-313		Weight*		2208.51 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	3.294	0.15	0.15	1491	1491	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		409		
	non noble metal	copper	7440-50-8	902.149	40.85	40.90	408488	409020	
	non noble metal	aluminium	7429-90-5	0.796	0.04	0.04	361	361	
wire	non noble metal	aluminium	7429-90-5	0.796	0.04	0.04	361	361	
encapsulation	organic material	carbon black	1333-86-4	2.301	0.10		1042		
	plastics	epoxy resin	-	215.282	9.75		97478		
	inorganic material	silicondioxide	60676-86-0	926.820	41.96	51.81	419659	518179	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3567	3567	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750	
solder	non noble metal	antimony	7440-36-0	0.209	0.01		95		
	noble metal	silver	7440-22-4	0.523	0.02		237		
	non noble metal	tin	7440-31-5	1.361	0.06	0.09	616	948	
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	iron	7439-89-6	0.145	0.01		66		
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65598	65684	
*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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