



Material Content Data Sheet



Sales Product Name		IPA65R190CFD		Issued		4. March 2019		
MA#		MA001371784						
Package		PG-TO220-3-313		Weight*		2205.10 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	9.459	0.43	0.43	4290	4290
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.91	40.96	409119	409652
	non noble metal	aluminium	7429-90-5	2.895	0.13	0.13	1313	1313
wire	non noble metal	aluminium	7429-90-5	2.895	0.13	0.13	1313	1313
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1054	
	plastics	epoxy resin	-	213.184	9.67		96677	
	inorganic material	silicondioxide	60676-86-0	914.892	41.48	51.26	414899	512630
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3572	3572
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.442	0.02		201	
	noble metal	silver	7440-22-4	1.106	0.05		502	
	non noble metal	tin	7440-31-5	2.876	0.13	0.20	1304	2007
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	6.57	6.58	65699	65785
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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