

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA65R190CFD	**Issued**	06. April 2021
MA#	MA003261102		
Package	PG-TO220-3-313	**Weight***	2205.81 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	4288	4288
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	40.90	40.95	408988	409521
wire	non noble metal	aluminium	7429-90-5	3.602	0.16	0.16	1633	1633
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1053	
	plastics	epoxy resin	-	213.184	9.66		96646	
	inorganic material	silicondioxide	60676-86-0	914.892	41.47	51.24	414766	512465
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3571	3571
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			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	65678	65764
*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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