



Material Content Data Sheet



Sales Product Name				IPP65R190CFD		Issued		20. July 2018	
MA#				MA001039186					
Package				PG-TO220-3-1		Weight*		2033.73 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	0.47	0.47	4651	4651	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		401		
	non noble metal	copper	7440-50-8	815.335	40.10	40.15	400905	401426	
	non noble metal	aluminium	7429-90-5	2.623	0.13	0.13	1290	1290	
wire	non noble metal	aluminium	7429-90-5	2.623	0.13	0.13	1290	1290	
encapsulation	organic material	carbon black	1333-86-4	5.889	0.29		2896		
	plastics	epoxy resin	-	111.889	5.50		55017		
	inorganic material	silicondioxide	60676-86-0	471.112	23.16	28.95	231649	289562	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10553	10553	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
solder	non noble metal	antimony	7440-36-0	0.442	0.02		218		
	noble metal	silver	7440-22-4	1.106	0.05		544		
	non noble metal	tin	7440-31-5	2.876	0.14	0.21	1414	2176	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	28.98	29.02	289844	290221	
*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.
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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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