



Material Content Data Sheet



Sales Product Name		SPA16N50C3		Issued		19. July 2018		
MA#		MA001374584						
Package		PG-TO220-3-313		Weight*		2210.60 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	8.240	0.37	0.37	3728	3728
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.81	40.86	408100	408632
wire	non noble metal	aluminium	7429-90-5	3.145	0.14	0.14	1423	1423
encapsulation	organic material	carbon black	1333-86-4	2.325	0.11		1052	
	plastics	epoxy resin	-	214.331	9.70		96956	
	inorganic material	silicondioxide	60676-86-0	920.537	41.63	51.44	416418	514426
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3608	3608
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	758	758
solder	non noble metal	antimony	7440-36-0	0.399	0.02		180	
	noble metal	silver	7440-22-4	0.996	0.05		451	
	non noble metal	tin	7440-31-5	2.591	0.12	0.19	1172	1803
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.55	6.56	65536	65622
*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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