



Material Content Data Sheet



Sales Product Name		SPA21N50C3		Issued		20. July 2018		
MA#		MA001371866						
Package		PG-TO220-3-313		Weight*		2209.38 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	11.919	0.54	0.54	5395	5395
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	40.83	40.88	408326	408858
wire	non noble metal	aluminium	7429-90-5	2.879	0.13	0.13	1303	1303
encapsulation	organic material	carbon black	1333-86-4	2.336	0.11		1057	
	plastics	epoxy resin	-	213.465	9.66		96617	
	inorganic material	silicondioxide	60676-86-0	915.503	41.44	51.21	414372	512046
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3610	3610
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	759	759
solder	non noble metal	antimony	7440-36-0	0.524	0.02		237	
	noble metal	silver	7440-22-4	1.310	0.06		593	
	non noble metal	tin	7440-31-5	3.406	0.15	0.23	1541	2371
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	6.56	6.57	65572	65658
*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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