

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPA16N50C3	**Issued**	02. June 2021
MA#	MA001374584		
Package	PG-TO220-3-313	**Weight***	2206.98 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	3734	3734
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.88	40.93	408771	409303
wire	non noble metal	aluminium	7429-90-5	3.721	0.17	0.17	1686	1686
encapsulation	organic material	carbon black	1333-86-4	2.314	0.10		1049	
	plastics	epoxy resin	-	213.536	9.68		96755	
	inorganic material	silicondioxide	60676-86-0	917.268	41.55	51.33	415618	513422
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3569	3569
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.399	0.02		181	
	noble metal	silver	7440-22-4	0.996	0.05		451	
	non noble metal	tin	7440-31-5	2.591	0.12	0.19	1174	1806
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	6.56	6.57	65644	65730
*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.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com