

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPA16N50C3	**Issued**	14. February 2022
MA#	MA005619062		
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:

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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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