



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SPA20N60CFD	<b>Issued</b>	31. March 2021
<b>MA#</b>	MA001368090		
<b>Package</b>	PG-TO220-3-313	<b>Weight*</b>	2205.54 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	13.322	0.60	0.60	6040	6040
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.90	40.95	409037	409570
wire	non noble metal	aluminium	7429-90-5	3.706	0.17	0.17	1680	1680
encapsulation	organic material	carbon black	1333-86-4	2.325	0.11		1054	
	plastics	epoxy resin	-	212.280	9.62		96249	
	inorganic material	silicondioxide	60676-86-0	910.293	41.27	51.00	412730	510033
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3571	3571
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.570	0.03		258	
	noble metal	silver	7440-22-4	1.424	0.06		646	
	non noble metal	tin	7440-31-5	3.703	0.17	0.26	1679	2583
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	6.57	6.58	65686	65772
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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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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