

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPA15N60CFD	**Issued**	02. June 2021
MA#	MA001371852		
Package	PG-TO220-3-313	**Weight***	2206.68 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	9.195	0.42	0.42	4167	4167
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	408826	409358
wire	non noble metal	aluminium	7429-90-5	3.715	0.17	0.17	1684	1684
encapsulation	organic material	carbon black	1333-86-4	2.316	0.10		1050	
	plastics	epoxy resin	-	213.297	9.67		96659	
	inorganic material	silicondioxide	60676-86-0	915.918	41.49	51.26	415067	512776
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.432	0.02		196	
	noble metal	silver	7440-22-4	1.080	0.05		489	
	non noble metal	tin	7440-31-5	2.807	0.13	0.20	1272	1957
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	65652	65738
*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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