



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SPP11N60C3	<b>Issued</b>	03. April 2021
<b>MA#</b>	MA001671472		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2027.43 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	7.017	0.35	0.35	3461	3461
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.22	40.27	402151	402675
wire	non noble metal	aluminium	7429-90-5	0.698	0.03	0.03	344	344
encapsulation	organic material	carbon black	1333-86-4	2.345	0.12		1157	
	plastics	epoxy resin	-	68.014	3.35		33547	
	inorganic material	silicondioxide	60676-86-0	515.969	25.45	28.92	254494	289198
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10586	10586
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.353	0.02		174	
	noble metal	silver	7440-22-4	0.883	0.04		436	
	non noble metal	tin	7440-31-5	2.296	0.11	0.17	1133	1743
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.07	29.11	290745	291123
*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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