



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SGP15N120	<b>Issued</b>	17. February 2022
<b>MA#</b>	MA005698259		
<b>Package</b>	PG-TO220-3-1	<b>Weight*</b>	2035.41 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	11.873	0.58	0.58	5833	5833
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400575	401096
wire	non noble metal	aluminium	7429-90-5	3.408	0.17	0.17	1674	1674
encapsulation	organic material	carbon black	1333-86-4	5.866	0.29		2882	
	plastics	epoxy resin	-	111.456	5.48		54758	
	inorganic material	silicondioxide	60676-86-0	469.288	23.06	28.83	230562	288202
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10544	10544
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.519	0.03		255	
	noble metal	silver	7440-22-4	1.297	0.06		637	
	non noble metal	tin	7440-31-5	3.371	0.17	0.26	1656	2548
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289605	289982
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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