



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SPA04N60C3	<b>Issued</b>	01. April 2021
<b>MA#</b>	MA001507238		
<b>Package</b>	PG-TO220-3-317	<b>Weight*</b>	2105.35 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	3.279	0.16	0.16	1557	1557
leadframe	inorganic material	phosphorus	7723-14-0	0.361	0.02		171	
	non noble metal	iron	7439-89-6	1.202	0.06		571	
	non noble metal	copper	7440-50-8	1,200.685	57.03	57.11	570301	571043
wire	non noble metal	aluminium	7429-90-5	0.812	0.04	0.04	386	386
encapsulation	organic material	carbon black	1333-86-4	8.868	0.42		4212	
	plastics	epoxy resin	-	142.514	6.77		67692	
	inorganic material	silicondioxide	60676-86-0	737.653	35.04	42.23	350371	422275
leadfinish	non noble metal	tin	7440-31-5	7.889	0.37	0.37	3747	3747
solder	non noble metal	antimony	7440-36-0	0.209	0.01		99	
	noble metal	silver	7440-22-4	0.523	0.02		248	
	non noble metal	tin	7440-31-5	1.359	0.06	0.09	645	992
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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