



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SPI21N50C3	<b>Issued</b>	16. May 2021
<b>MA#</b>	MA005406210		
<b>Package</b>	PG-TO262-3-22	<b>Weight*</b>	1577.01 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	11.919	0.76	0.76	7558	7558
leadframe	inorganic material	phosphorus	7723-14-0	0.255	0.02		162	
	non noble metal	iron	7439-89-6	0.851	0.05		539	
	non noble metal	copper	7440-50-8	849.682	53.89	53.96	538792	539493
wire	non noble metal	aluminium	7429-90-5	3.271	0.21	0.21	2074	2074
encapsulation	organic material	carbon black	1333-86-4	2.913	0.18		1847	
	miscellaneous	miscellaneous	-	2.913	0.18		1847	
	organic material	phenol formaldehyde resin	9003-35-4	34.956	2.22		22166	
	inorganic material	silicondioxide	14808-60-7	46.608	2.96		29555	
	non noble metal	metal hydroxide	-	46.608	2.96		29555	
	plastics	epoxy resin	29690-82-2	69.912	4.43		44332	
	inorganic material	silicondioxide	60676-86-0	378.689	24.01	36.94	240130	369432
leadfinish	non noble metal	tin	7440-31-5	15.198	0.96	0.96	9637	9637
plating	non noble metal	nickel	7440-02-0	1.651	0.10	0.10	1047	1047
solder	non noble metal	antimony	7440-36-0	0.524	0.03		332	
	noble metal	silver	7440-22-4	1.310	0.08		831	
	non noble metal	tin	7440-31-5	3.406	0.22	0.33	2160	3323
heatspreader	inorganic material	phosphorus	7723-14-0	0.032			20	
	non noble metal	iron	7439-89-6	0.106	0.01		67	
	non noble metal	copper	7440-50-8	106.210	6.73	6.74	67349	67436
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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