



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SPP20N60C3	<b>Issued</b>	16. April 2021
<b>MA#</b>	MA005405304		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2039.83 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	12.312	0.60	0.60	6036	6036
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.98	40.03	399706	400226
wire	non noble metal	aluminium	7429-90-5	3.293	0.16	0.16	1614	1614
encapsulation	organic material	carbon black	1333-86-4	2.945	0.14		1444	
	miscellaneous	miscellaneous	-	2.945	0.14		1444	
	organic material	phenol formaldehyde resin	9003-35-4	35.340	1.73		17325	
	inorganic material	silicondioxide	14808-60-7	47.121	2.31		23100	
	non noble metal	metal hydroxide	-	47.121	2.31		23100	
	plastics	epoxy resin	29690-82-2	70.681	3.46		34650	
	inorganic material	silicondioxide	60676-86-0	382.854	18.77	28.86	187689	288752
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10522	10522
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.537	0.03		263	
	noble metal	silver	7440-22-4	1.342	0.07		658	
	non noble metal	tin	7440-31-5	3.489	0.17	0.27	1710	2631
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.90	28.94	288978	289354
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com