



## Material Content Data Sheet



<b>Sales Product Name</b>		SPI21N50C3		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001639340						
<b>Package</b>		PG-TO262-3-22		<b>Weight*</b>		1567.32 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	7605	7605
leadframe	non noble metal	iron	7439-89-6	0.851	0.05		543	
	inorganic material	phosphorus	7723-14-0	0.255	0.02		163	
	non noble metal	copper	7440-50-8	849.682	54.21	54.28	542123	542829
wire	non noble metal	aluminium	7429-90-5	2.629	0.17	0.17	1677	1677
encapsulation	organic material	carbon black	1333-86-4	2.294	0.15		1464	
	plastics	epoxy resin	-	66.531	4.24		42449	
	inorganic material	silicondioxide	60676-86-0	504.717	32.20	36.59	322025	365938
leadfinish	non noble metal	tin	7440-31-5	15.198	0.97	0.97	9697	9697
plating	non noble metal	nickel	7440-02-0	1.651	0.11	0.11	1053	1053
solder	non noble metal	antimony	7440-36-0	0.525	0.03		335	
	noble metal	silver	7440-22-4	1.312	0.08		837	
	non noble metal	tin	7440-31-5	3.410	0.22	0.33	2176	3348
heatspreader	non noble metal	iron	7439-89-6	0.106	0.01		68	
	inorganic material	phosphorus	7723-14-0	0.032	0.00		20	
	non noble metal	copper	7440-50-8	106.210	6.78	6.79	67765	67853
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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

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