



Material Content Data Sheet



Sales Product Name		SPA20N60C3		Issued		25. September 2017		
MA#		MA001349696						
Package		PG-TO220-3-111		Weight*		2239.73 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	0.55	0.55	5497	5497
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.64	30.68	306387	306786
wire	non noble metal	aluminium	7429-90-5	2.762	0.12	0.12	1233	1233
encapsulation	organic material	carbon black	1333-86-4	2.256	0.10		1007	
	plastics	epoxy resin	-	205.926	9.19		91943	
	inorganic material	silicondioxide	60676-86-0	882.968	39.43	48.72	394229	487180
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3590	3590
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.537	0.02		240	
	noble metal	silver	7440-22-4	1.342	0.06		599	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1558	2397
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.29	19.32	192930	193181
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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