



Material Content Data Sheet



Sales Product Name		SPA12N50C3		Issued		27. September 2017		
MA#		MA000462190						
Package		PG-TO220-3-111		Weight*		2259.54 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	7.017	0.31	0.31	3106	3106
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	iron	7439-89-6	0.687	0.03		304	
	non noble metal	copper	7440-50-8	686.221	30.37	30.41	303700	304095
	non noble metal	aluminium	7429-90-5	1.317	0.06	0.06	583	583
wire	non noble metal	aluminium	7429-90-5	1.317	0.06	0.06	583	583
encapsulation	organic material	carbon black	1333-86-4	2.266	0.10		1003	
	plastics	epoxy resin	-	210.777	9.33		93284	
	inorganic material	silicondioxide	60676-86-0	906.592	40.12	49.55	401228	495515
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3515	3515
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	135	136
solder	non noble metal	antimony	7440-36-0	0.353	0.02		156	
	noble metal	silver	7440-22-4	0.883	0.04		391	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1016	1563
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	iron	7439-89-6	0.433	0.02		191	
	non noble metal	copper	7440-50-8	432.110	19.12	19.15	191239	191487
*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