



Material Content Data Sheet



Sales Product Name		SPA11N60C3		Issued		10. May 2016		
MA#		MA001046724						
Package		PG-TO220-3-111		Weight*		2240.90 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	3132	3132
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	30.62	30.66	306226	306625
wire	non noble metal	aluminium	7429-90-5	6.895	0.31	0.31	3077	3077
encapsulation	organic material	carbon black	1333-86-4	2.191	0.10		978	
	plastics	epoxy resin	-	205.939	9.19		91900	
	inorganic material	silicondioxide	60676-86-0	887.289	39.60	48.89	395950	488829
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3544	3544
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	0.353	0.02		158	
	noble metal	silver	7440-22-4	0.883	0.04		394	
	non noble metal	tin	7440-31-5	2.296	0.10	0.16	1025	1577
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	19.28	19.31	192829	193080
*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 2011/65/EU (RoHS) and does not use any exemption.

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