



Material Content Data Sheet



Sales Product Name		IPP110N20NA		Issued		29. August 2013		
MA#		MA000899044						
Package		PG-TO220-3-1		Weight*		2044.16 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	17.562	0.86	0.86	8592	8592
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		399	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	39.89	39.94	398860	399380
wire	non noble metal	aluminium	7429-90-5	10.521	0.51	0.51	5147	5147
encapsulation	organic material	carbon black	1333-86-4	8.663	0.42		4238	
	plastics	epoxy resin	-	95.293	4.66		46617	
	inorganic material	silicondioxide	60676-86-0	473.578	23.17	28.25	231674	282529
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10499	10499
plating	non noble metal	nickel	7440-02-0	0.244	0.01		119	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	119
solder	noble metal	silver	7440-22-4	0.255	0.01		125	
	non noble metal	tin	7440-31-5	0.204	0.01		100	
	non noble metal	lead	7439-92-1	9.743	0.48	0.50	4766	4991
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	28.84	28.88	288367	288743
*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.

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