



Material Content Data Sheet



Sales Product Name				IPP039N04L G		Issued		25. September 2017	
MA#				MA000768642					
Package				PG-TO220-3-123		Weight*		2025.95 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	2.247	0.11	0.11	1109	1109	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		403		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.23	40.28	402447	402971	
wire	non noble metal	aluminium	7429-90-5	5.868	0.29	0.29	2896	2896	
encapsulation	organic material	carbon black	1333-86-4	2.345	0.12		1157		
	plastics	epoxy resin	-	67.997	3.36		33563		
	inorganic material	silicondioxide	60676-86-0	515.838	25.46	28.94	254617	289337	
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10726	10726	
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	881	881	
solder	non noble metal	antimony	7440-36-0	0.151	0.01		74		
	noble metal	silver	7440-22-4	0.376	0.02		186		
	non noble metal	tin	7440-31-5	0.978	0.05	0.08	483	743	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	290959	291337	
*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