



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP320N20N3 G		<b>Issued</b>		29. August 2013	
<b>MA#</b>				MA001124214					
<b>Package</b>				PG-TO220-3-123		<b>Weight*</b>		2028.05 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	6.322	0.31	0.31	3117	3117	
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	40.20	40.25	402028	402552	
wire	non noble metal	aluminium	7429-90-5	5.878	0.29	0.29	2898	2898	
encapsulation	organic material	carbon black	1333-86-4	2.329	0.11		1149		
	plastics	epoxy resin	-	67.554	3.33		33310		
	inorganic material	silicondioxide	60676-86-0	512.480	25.27	28.71	252695	287154	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10583	10583	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870	
solder	noble metal	silver	7440-22-4	0.909	0.04		448		
	non noble metal	antimony	7440-36-0	0.363	0.02		179		
	non noble metal	tin	7440-31-5	2.363	0.12	0.18	1165	1792	
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	29.07	29.11	290656	291034	
*deviation	< 10%		Sum in total:			100,00		1000000	

### Important Remarks:

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