



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP110N20N3 G		<b>Issued</b>		29. August 2013		
<b>MA#</b>		MA000811282						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2038.32 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	8616	8616
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.00	40.05	400003	400525
wire	non noble metal	aluminium	7429-90-5	11.929	0.59	0.59	5853	5853
encapsulation	organic material	carbon black	1333-86-4	5.733	0.28		2813	
	plastics	epoxy resin	-	108.926	5.34		53439	
	inorganic material	silicondioxide	60676-86-0	458.637	22.50	28.12	225007	281259
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10529	10529
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.719	0.04		353	
	noble metal	silver	7440-22-4	1.799	0.09		882	
	non noble metal	tin	7440-31-5	4.676	0.23	0.36	2294	3529
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.92	28.96	289192	289569
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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