



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA180N10N3 G		<b>Issued</b>		29. August 2013		
<b>MA#</b>		MA000801574						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2239.75 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	2.307	0.10	0.10	1030	1030
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	30.64	30.68	306383	306782
wire	non noble metal	aluminium	7429-90-5	3.200	0.14	0.14	1429	1429
encapsulation	organic material	carbon black	1333-86-4	2.209	0.10		986	
	plastics	epoxy resin	-	207.652	9.27		92712	
	inorganic material	silicondioxide	60676-86-0	894.672	39.95	49.32	399451	493150
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3546	3546
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	0.167	0.01		75	
	noble metal	silver	7440-22-4	0.418	0.02		187	
	non noble metal	tin	7440-31-5	1.088	0.05	0.08	486	748
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.29	19.32	192928	193179
*deviation	< 10%					Sum in total:	100,00	1000000

### Important Remarks:

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