



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA041N04N G		<b>Issued</b>		4. March 2019	
<b>MA#</b>				MA001214818					
<b>Package</b>				PG-TO220-3-111		<b>Weight*</b>		2237.26 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	0.10	0.10	1004	1004	
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		92		
	non noble metal	iron	7439-89-6	0.687	0.03		307		
	non noble metal	copper	7440-50-8	686.221	30.67	30.71	306725	307124	
	non noble metal	aluminium	7429-90-5	5.829	0.26	0.26	2605	2605	
wire	non noble metal	aluminium	7429-90-5	5.829	0.26	0.26	2605	2605	
encapsulation	organic material	carbon black	1333-86-4	2.221	0.10		993		
	plastics	epoxy resin	-	206.970	9.25		92510		
	inorganic material	silicondioxide	60676-86-0	890.456	39.80	49.15	398011	491514	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.36	0.36	3550	3550	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	136	137	
solder	non noble metal	antimony	7440-36-0	0.150	0.01		67		
	noble metal	silver	7440-22-4	0.376	0.02		168		
	non noble metal	tin	7440-31-5	0.977	0.04	0.07	437	672	
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	19.31	19.34	193143	193394	
*deviation	< 10%			Sum in total:		100.00		1000000	

### Important Remarks:

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