



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP111N15N3 G		<b>Issued</b>		2. August 2018		
<b>MA#</b>		MA000771438						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2035.47 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	10.752	0.53	0.53	5282	5282
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.07	40.12	400562	401083
	non noble metal	aluminium	7429-90-5	11.190	0.55	0.55	5498	5498
wire	non noble metal	aluminium	7429-90-5	11.190	0.55	0.55	5498	5498
encapsulation	organic material	carbon black	1333-86-4	5.801	0.28		2850	
	plastics	epoxy resin	-	110.214	5.41		54146	
	inorganic material	silicondioxide	60676-86-0	464.057	22.80	28.49	227985	284981
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10544	10544
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.512	0.03		252	
	noble metal	silver	7440-22-4	1.281	0.06		629	
	non noble metal	tin	7440-31-5	3.331	0.16	0.25	1636	2517
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289597	289974
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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