



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP048N04N G		<b>Issued</b>		16. July 2019		
<b>MA#</b>		MA001837572						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2030.27 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	1.734	0.09	0.09	854	854
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.15	40.20	401589	402112
	non noble metal	aluminium	7429-90-5	5.133	0.25	0.25	2528	2528
wire	non noble metal	aluminium	7429-90-5	5.133	0.25	0.25	2528	2528
encapsulation	organic material	carbon black	1333-86-4	5.938	0.29		2925	
	plastics	epoxy resin	-	112.825	5.56		55572	
	inorganic material	silicondioxide	60676-86-0	475.053	23.40	29.25	233985	292482
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10571	10571
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	0.125	0.01		61	
	noble metal	silver	7440-22-4	0.312	0.02		154	
	non noble metal	tin	7440-31-5	0.811	0.04	0.07	400	615
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290339	290717
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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