



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP048N12N3 G		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001641480						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2032.23 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	15.224	0.75	0.75	7491	7491
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	40.11	40.16	401203	401726
	non noble metal	aluminium	7429-90-5	8.888	0.44	0.44	4374	4374
wire	organic material	carbon black	1333-86-4	2.287	0.11		1125	
encapsulation	plastics	epoxy resin	-	66.321	3.26		32635	
	inorganic material	silicondioxide	60676-86-0	503.123	24.76	28.13	247572	281332
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10561	10561
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	868	868
solder	non noble metal	antimony	7440-36-0	0.653	0.03		321	
	noble metal	silver	7440-22-4	1.632	0.08		803	
heatspreader	non noble metal	tin	7440-31-5	4.243	0.21	0.32	2088	3212
	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	29.01	29.05	290059	290436
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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