



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP045N10N3 G		<b>Issued</b>		25. September 2017			
<b>MA#</b>		MA000933784							
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2029.36 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	8.861	0.44	0.44	4366	4366	
leadframe	non noble metal	iron	7439-89-6	1.407	0.07		693		
	inorganic material	phosphorus	7723-14-0	0.422	0.02		208		
	non noble metal	copper	7440-50-8	1404.801	69.22	69.31	692240	693141	
wire	non noble metal	aluminium	7429-90-5	8.857	0.44	0.44	4364	4364	
encapsulation	organic material	carbon black	1333-86-4	2.310	0.11		1138		
	plastics	epoxy resin	-	66.989	3.30		33010		
	inorganic material	silicondioxide	60676-86-0	508.190	25.04	28.45	250419	284567	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10576	10576	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869	
solder	non noble metal	antimony	7440-36-0	0.430	0.02		212		
	noble metal	silver	7440-22-4	1.074	0.05		529		
	non noble metal	tin	7440-31-5	2.793	0.14	0.21	1376	2117	
*deviation	< 10%					Sum in total:	100.00		1000000

### Important Remarks:

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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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