



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP110N20N3 G		<b>Issued</b>		25. January 2018		
<b>MA#</b>		MA001641486						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2033.50 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	17.562	0.86	0.86	8637	8637
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	40.08	40.13	400953	401474
	non noble metal	aluminium	7429-90-5	11.509	0.57	0.57	5660	5660
wire	non noble metal	aluminium	7429-90-5	11.509	0.57	0.57	5660	5660
encapsulation	organic material	carbon black	1333-86-4	2.269	0.11		1116	
	plastics	epoxy resin	-	65.814	3.24		32365	
	inorganic material	silicondioxide	60676-86-0	499.281	24.55	27.90	245529	279010
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10554	10554
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.720	0.04		354	
	noble metal	silver	7440-22-4	1.801	0.09		886	
	non noble metal	tin	7440-31-5	4.682	0.23	0.36	2303	3543
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	28.99	29.03	289878	290255
*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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