



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP111N15N3 G	<b>Issued</b>	04. May 2021
<b>MA#</b>	MA001155862		
<b>Package</b>	PG-TO220-3-1	<b>Weight*</b>	2038.12 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	5276	5276
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	40.01	40.06	400042	400563
wire	non noble metal	aluminium	7429-90-5	13.621	0.67	0.67	6683	6683
encapsulation	organic material	carbon black	1333-86-4	5.803	0.28		2847	
	plastics	epoxy resin	-	110.254	5.41		54096	
	inorganic material	silicondioxide	60676-86-0	464.229	22.78	28.47	227773	284716
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10530	10530
plating	inorganic material	phosphorus	7723-14-0	0.001			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		251	
	noble metal	silver	7440-22-4	1.281	0.06		629	
	non noble metal	tin	7440-31-5	3.331	0.16	0.25	1634	2514
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	28.92	28.96	289220	289597
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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