



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP048N12N3 G	<b>Issued</b>	24. June 2021
<b>MA#</b>	MA001641480		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2044.16 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	0.74	0.74	7448	7448
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		399	
	non noble metal	copper	7440-50-8	815.335	39.88	39.93	398860	399379
wire	non noble metal	aluminium	7429-90-5	44.172	2.16	2.16	21609	21609
encapsulation	organic material	carbon black	1333-86-4	2.194	0.11		1073	
	plastics	epoxy resin	-	63.613	3.11		31119	
	inorganic material	silicondioxide	60676-86-0	482.578	23.61	26.83	236076	268268
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10499	10499
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	863	863
solder	non noble metal	antimony	7440-36-0	0.653	0.03		319	
	noble metal	silver	7440-22-4	1.632	0.08		798	
	non noble metal	tin	7440-31-5	4.243	0.21	0.32	2076	3193
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.84	28.88	288365	288741
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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