



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP039N04L G	<b>Issued</b>	11. April 2021
<b>MA#</b>	MA001833454		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2026.98 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	2.247	0.11	0.11	1108	1108
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.21	40.26	402242	402766
wire	non noble metal	aluminium	7429-90-5	6.934	0.34	0.34	3421	3421
encapsulation	organic material	carbon black	1333-86-4	2.346	0.12		1157	
	plastics	epoxy resin	-	68.027	3.36		33561	
	inorganic material	silicondioxide	60676-86-0	516.065	25.46	28.94	254598	289316
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10588	10588
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.151	0.01		74	
	noble metal	silver	7440-22-4	0.376	0.02		186	
	non noble metal	tin	7440-31-5	0.978	0.05	0.08	483	743
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.08	29.12	290810	291188
*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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