



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP041N12N3 G	<b>Issued</b>	15. April 2021
<b>MA#</b>	MA005403441		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2044.79 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	8589	8589
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	39.86	39.91	398737	399256
wire	non noble metal	aluminium	7429-90-5	12.689	0.62	0.62	6205	6205
encapsulation	organic material	carbon black	1333-86-4	2.887	0.14		1412	
	miscellaneous	miscellaneous	-	2.887	0.14		1412	
	organic material	phenol formaldehyde resin	9003-35-4	34.649	1.69		16945	
	inorganic material	silicondioxide	14808-60-7	46.199	2.26		22594	
	non noble metal	metal hydroxide	-	46.199	2.26		22594	
	plastics	epoxy resin	29690-82-2	69.299	3.39		33890	
	inorganic material	silicondioxide	60676-86-0	375.368	18.36	28.24	183573	282420
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10496	10496
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	862	862
solder	non noble metal	antimony	7440-36-0	0.719	0.04		352	
	noble metal	silver	7440-22-4	1.799	0.09		880	
	non noble metal	tin	7440-31-5	4.676	0.23	0.36	2287	3519
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	28.83	28.87	288277	288653
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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