



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP05CN10N G	<b>Issued</b>	15. April 2021
<b>MA#</b>	MA005403632		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2043.35 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	0.75	0.75	7451	7451
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.90	39.95	399019	399539
wire	non noble metal	aluminium	7429-90-5	10.816	0.53	0.53	5293	5293
encapsulation	organic material	carbon black	1333-86-4	2.905	0.14		1422	
	miscellaneous	miscellaneous	-	2.905	0.14		1422	
	organic material	phenol formaldehyde resin	9003-35-4	34.856	1.71		17058	
	inorganic material	silicondioxide	14808-60-7	46.475	2.27		22744	
	non noble metal	metal hydroxide	-	46.475	2.27		22744	
	plastics	epoxy resin	29690-82-2	69.712	3.41		34116	
	inorganic material	silicondioxide	60676-86-0	377.606	18.48	28.42	184797	284303
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10504	10504
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	863	863
solder	non noble metal	antimony	7440-36-0	0.652	0.03		319	
	noble metal	silver	7440-22-4	1.630	0.08		798	
	non noble metal	tin	7440-31-5	4.237	0.21	0.32	2074	3191
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	28.85	28.89	288480	288856
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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