



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP05CN10N G	<b>Issued</b>	12. March 2021
<b>MA#</b>	MA001070648		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2034.33 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	7484	7484
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	40.07	40.12	400789	401310
wire	non noble metal	aluminium	7429-90-5	10.816	0.53	0.53	5317	5317
encapsulation	organic material	carbon black	1333-86-4	2.288	0.11		1124	
	plastics	epoxy resin	-	66.341	3.26		32611	
	inorganic material	silicondioxide	60676-86-0	503.274	24.74	28.11	247391	281126
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10550	10550
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.653	0.03		321	
	noble metal	silver	7440-22-4	1.632	0.08		802	
	non noble metal	tin	7440-31-5	4.243	0.21	0.32	2086	3209
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	28.98	29.02	289760	290137
*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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