



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA083N10N5	<b>Issued</b>	30. March 2021
<b>MA#</b>	MA001334390		
<b>Package</b>	PG-TO220-3-313	<b>Weight*</b>	2208.98 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	1.413	0.06	0.06	640	640
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.84	40.89	408401	408933
wire	non noble metal	aluminium	7429-90-5	8.403	0.38	0.38	3804	3804
encapsulation	organic material	carbon black	1333-86-4	2.294	0.10		1038	
	plastics	epoxy resin	-	214.497	9.71		97102	
	inorganic material	silicon dioxide	60676-86-0	923.407	41.81	51.62	418025	516165
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3566	3566
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.104			47	
	noble metal	silver	7440-22-4	0.261	0.01		118	
	non noble metal	tin	7440-31-5	0.678	0.03	0.04	307	472
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65584	65670
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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