



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPB048N15N5LF	<b>Issued</b>	24. February 2022
<b>MA#</b>	MA005700570		
<b>Package</b>	PG-TO263-3-2	<b>Weight*</b>	1564.91 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.390	0.02	0.02	249	249
chip_2	inorganic material	silicon	7440-21-3	7.046	0.45	0.45	4502	4502
leadframe	inorganic material	phosphorus	7723-14-0	0.091	0.01		58	
	non noble metal	iron	7439-89-6	0.304	0.02		195	
	non noble metal	copper	7440-50-8	304.026	19.43	19.46	194278	194531
wire	noble metal	gold	7440-57-5	0.079	0.01		51	
	non noble metal	aluminium	7429-90-5	12.319	0.79	0.80	7872	7923
encapsulation	inorganic material	zinc oxide	1314-13-2	6.762	0.43		4321	
	miscellaneous	miscellaneous	-	27.046	1.73		17283	
	plastics	epoxy resin	-	101.423	6.48		64811	
	inorganic material	silicon dioxide	60676-86-0	540.922	34.57	43.21	345658	432073
lead finish	non noble metal	tin	7440-31-5	9.657	0.62	0.62	6171	6171
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.228	0.01	0.01	146	147
solder	non noble metal	tin	7440-31-5	0.122	0.01		78	
	noble metal	silver	7440-22-4	0.153	0.01		98	
	non noble metal	lead	7439-92-1	5.834	0.37	0.39	3728	3904
glue	plastics	Polyimide	26023-21-2	0.124	0.01	0.01	79	79
heatspreader	inorganic material	phosphorus	7723-14-0	0.165	0.01		105	
	non noble metal	iron	7439-89-6	0.548	0.04		350	
	non noble metal	copper	7440-50-8	547.666	34.98	35.03	349966	350421
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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