



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA030N10N3 G	Issued	14. February 2022
MA#	MA005619143		
Package	PG-TO220-3-313	Weight*	2204.32 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	15.455	0.70	0.70	7011	7011
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.92	40.97	409264	409797
wire	non noble metal	aluminium	7429-90-5	14.568	0.66	0.66	6609	6609
encapsulation	organic material	carbon black	1333-86-4	2.329	0.11		1056	
	plastics	epoxy resin	-	209.832	9.52		95191	
	inorganic material	silicondioxide	60676-86-0	897.801	40.73	50.36	407292	503539
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3573	3573
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.642	0.03		291	
	noble metal	silver	7440-22-4	1.604	0.07		728	
	non noble metal	tin	7440-31-5	4.171	0.19	0.29	1892	2911
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	6.57	6.58	65723	65809
*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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