

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP015N04N G	**Issued**	16. May 2021
MA#	MA005403200		
Package	PG-TO220-3-123	**Weight***	2041.10 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	8.901	0.44	0.44	4361	4361
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	39.96	40.01	399459	399979
wire	non noble metal	aluminium	7429-90-5	12.884	0.63	0.63	6312	6312
encapsulation	organic material	carbon black	1333-86-4	2.926	0.14		1434	
	miscellaneous	miscellaneous	-	2.926	0.14		1434	
	organic material	phenol formaldehyde resin	9003-35-4	35.116	1.72		17205	
	inorganic material	silicondioxide	14808-60-7	46.821	2.29		22939	
	non noble metal	metal hydroxide	-	46.821	2.29		22939	
	plastics	epoxy resin	29690-82-2	70.232	3.44		34409	
	inorganic material	silicondioxide	60676-86-0	380.424	18.64	28.66	186382	286742
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10515	10515
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	864	864
solder	non noble metal	antimony	7440-36-0	0.419	0.02		205	
	noble metal	silver	7440-22-4	1.047	0.05		513	
	non noble metal	tin	7440-31-5	2.722	0.13	0.20	1334	2052
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	28.88	28.92	288799	289175
*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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