

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP023N04N G	**Issued**	11. April 2021
MA#	MA001837598		
Package	PG-TO220-3-123	**Weight***	2028.18 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	4.425	0.22	0.22	2182	2182
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.19	40.24	402004	402528
wire	non noble metal	aluminium	7429-90-5	7.288	0.36	0.36	3593	3593
encapsulation	organic material	carbon black	1333-86-4	2.337	0.12		1152	
	plastics	epoxy resin	-	67.766	3.34		33412	
	inorganic material	silicondioxide	60676-86-0	514.087	25.35	28.81	253473	288037
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10582	10582
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.242	0.01		119	
	noble metal	silver	7440-22-4	0.605	0.03		298	
	non noble metal	tin	7440-31-5	1.573	0.08	0.12	775	1192
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290638	291016
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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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