



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP041N12N3 G	Issued	24. June 2021
MA#	MA001070658		
Package	PG-TO220-3-123	Weight*	2035.82 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	17.562	0.86	0.86	8627	8627
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.06	40.11	400495	401016
wire	non noble metal	aluminium	7429-90-5	12.689	0.62	0.62	6233	6233
encapsulation	organic material	carbon black	1333-86-4	2.274	0.11		1117	
	plastics	epoxy resin	-	65.947	3.24		32393	
	inorganic material	silicondioxide	60676-86-0	500.291	24.57	27.92	245744	279254
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10542	10542
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.720	0.04		354	
	noble metal	silver	7440-22-4	1.801	0.09		885	
	non noble metal	tin	7440-31-5	4.682	0.23	0.36	2300	3539
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.95	28.99	289546	289923
*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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