



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP041N04N G	Issued	24. February 2022
MA#	MA005700947		
Package	PG-TO220-3-1	Weight*	2032.05 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	2.247	0.11	0.11	1106	1106
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401237	401760
wire	non noble metal	aluminium	7429-90-5	7.222	0.36	0.36	3554	3554
encapsulation	organic material	carbon black	1333-86-4	5.927	0.29		2917	
	plastics	epoxy resin	-	112.620	5.54		55422	
	inorganic material	silicondioxide	60676-86-0	474.189	23.34	29.17	233356	291695
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10562	10562
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.150	0.01		74	
	noble metal	silver	7440-22-4	0.376	0.02		185	
	non noble metal	tin	7440-31-5	0.977	0.05	0.08	481	740
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	29.01	29.05	290085	290462
*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.
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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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