



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA320N20NM3S	Issued	13. May 2021
MA#	MA002224338		
Package	PG-TO220-3-312	Weight*	2056.24 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	6.322	0.31	0.31	3075	3075
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		138	
	non noble metal	iron	7439-89-6	0.949	0.05		461	
	non noble metal	copper	7440-50-8	947.445	46.07	46.13	460766	461365
wire	non noble metal	aluminium	7429-90-5	8.710	0.42	0.42	4236	4236
encapsulation	organic material	carbon black	1333-86-4	10.713	0.52		5210	
	plastics	epoxy resin	-	173.271	8.43		84266	
	inorganic material	silicondioxide	60676-86-0	893.956	43.48	52.43	434753	524229
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5396	5396
solder	non noble metal	antimony	7440-36-0	0.349	0.02		170	
	noble metal	silver	7440-22-4	0.873	0.04		425	
	non noble metal	tin	7440-31-5	2.270	0.11	0.17	1104	1699
*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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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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