

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPG20N04S4L-11	**Issued**	02. June 2021
MA#	MA001043490		
Package	PG-TDSON-8-4	**Weight***	96.39 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.868	0.90	0.90	9008	9008
chip_2	inorganic material	silicon	7440-21-3	0.868	0.90	0.90	9008	9008
leadframe	inorganic material	phosphorus	7723-14-0	0.013	0.01		138	
	non noble metal	iron	7439-89-6	0.044	0.05		461	
	non noble metal	copper	7440-50-8	44.409	46.07	46.13	460743	461342
wire	non noble metal	aluminium	7429-90-5	0.776	0.81	0.81	8051	8051
encapsulation	organic material	carbon black	1333-86-4	0.091	0.09		945	
	plastics	epoxy resin	-	6.464	6.71		67068	
	inorganic material	silicondioxide	60676-86-0	38.969	40.43	47.23	404299	472312
leadfinish	non noble metal	tin	7440-31-5	1.308	1.36	1.36	13567	13567
plating	inorganic material	phosphorus	7723-14-0	0.000			1	
	non noble metal	nickel	7440-02-0	0.048	0.05	0.05	498	499
solder	non noble metal	tin	7440-31-5	0.046	0.05		473	
	noble metal	silver	7440-22-4	0.057	0.06		592	
	non noble metal	lead	7439-92-1	2.179	2.26	2.37	22603	23668
heatspreader	inorganic material	phosphorus	7723-14-0	0.000			1	
	non noble metal	iron	7439-89-6	0.000			3	
	non noble metal	copper	7440-50-8	0.245	0.25	0.25	2541	2545
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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