



Material Content Data Sheet



Sales Product Name		IPG20N04S4-12		Issued		20. July 2018			
MA#		MA001043488							
Package		PG-TDSON-8-4		Weight*		96.32 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	1.736	1.80	1.80	18028	18028	
leadframe	non noble metal	iron	7439-89-6	0.045	0.05		464		
	inorganic material	phosphorus	7723-14-0	0.013	0.01		139		
	non noble metal	copper	7440-50-8	44.654	46.37	46.43	463595	464198	
wire	non noble metal	aluminium	7429-90-5	0.766	0.79	0.79	7948	7948	
encapsulation	organic material	carbon black	1333-86-4	0.091	0.09		944		
	plastics	epoxy resin	-	6.457	6.70		67034		
	inorganic material	silicondioxide	60676-86-0	38.922	40.41	47.20	404089	472067	
leadfinish	non noble metal	tin	7440-31-5	1.308	1.36	1.36	13576	13576	
plating	non noble metal	nickel	7440-02-0	0.048	0.05		498		
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.05	1	499	
solder	noble metal	silver	7440-22-4	0.057	0.06		592		
	non noble metal	tin	7440-31-5	0.046	0.05		474		
	non noble metal	lead	7439-92-1	2.179	2.26	2.37	22618	23684	
*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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