



Material Content Data Sheet



Sales Product Name				IPP048N12N3 G		Issued		19. January 2018	
MA#				MA001263092					
Package				PG-TO220-3-1		Weight*		2037.06 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	15.224	0.75	0.75	7474	7474	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.03	40.08	400250	400771	
wire	non noble metal	aluminium	7429-90-5	9.025	0.44	0.44	4431	4431	
encapsulation	organic material	carbon black	1333-86-4	5.780	0.28		2837		
	plastics	epoxy resin	-	109.812	5.39		53907		
	inorganic material	silicondioxide	60676-86-0	462.367	22.70	28.37	226977	283721	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10536	10536	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	400249	120	
solder	non noble metal	antimony	7440-36-0	0.652	0.03		320		
	noble metal	silver	7440-22-4	1.630	0.08		800		
	non noble metal	tin	7440-31-5	4.237	0.21	0.32	2080	3200	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289370	289747	
*deviation	< 10%					Sum in total:	100.00	1000000	

Important Remarks:

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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

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com