



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP50R399CP		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA000985168						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2032.19 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	4.846	0.24	0.24	2385	2385
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401210	401734
wire	non noble metal	aluminium	7429-90-5	7.248	0.36	0.36	3567	3567
encapsulation	organic material	carbon black	1333-86-4	5.890	0.29		2898	
	plastics	epoxy resin	-	111.912	5.51		55070	
	inorganic material	silicondioxide	60676-86-0	471.210	23.19	28.99	231874	289842
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10561	10561
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	1	120
solder	non noble metal	antimony	7440-36-0	0.274	0.01		135	
	noble metal	silver	7440-22-4	0.686	0.03		337	
	non noble metal	tin	7440-31-5	1.783	0.09	0.13	877	1349
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	29.01	29.05	290065	290442
*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

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