



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP50R199CP		<b>Issued</b>		24. January 2018		
<b>MA#</b>		MA001604992						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2028.51 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	8.809	0.43	0.43	4343	4343
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	40.20	40.25	401939	402462
wire	non noble metal	aluminium	7429-90-5	2.672	0.13	0.13	1317	1317
encapsulation	organic material	carbon black	1333-86-4	2.332	0.12		1150	
	plastics	epoxy resin	-	67.625	3.33		33337	
	inorganic material	silicondioxide	60676-86-0	513.014	25.29	28.74	252902	287389
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10580	10580
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.420	0.02		207	
	noble metal	silver	7440-22-4	1.050	0.05		518	
	non noble metal	tin	7440-31-5	2.731	0.13	0.20	1346	2071
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290591	290969
*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