



Material Content Data Sheet



Sales Product Name		IPA60R199CP		Issued		20. July 2018		
MA#		MA001394868						
Package		PG-TO220-3-313		Weight*		2213.85 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	0.40	0.40	3979	3979
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		408	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	copper	7440-50-8	902.149	40.75	40.80	407501	408031
wire	non noble metal	aluminium	7429-90-5	3.292	0.15	0.15	1487	1487
encapsulation	organic material	carbon black	1333-86-4	2.300	0.10		1039	
	plastics	epoxy resin	-	214.469	9.69		96876	
	inorganic material	silicondioxide	60676-86-0	922.868	41.69	51.48	416860	514775
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3558	3558
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	748	748
solder	non noble metal	antimony	7440-36-0	0.420	0.02		190	
	noble metal	silver	7440-22-4	1.049	0.05		474	
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1232	1896
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.54	6.55	65440	65526
*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 does not use any exemption

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