



Material Content Data Sheet



Sales Product Name		IPA60R199CP		Issued		20. July 2018		
MA#		MA001394818						
Package		PG-TO220-3-253		Weight*		2135.57 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	0.41	0.41	4125	4125
leadframe	non noble metal	iron	7439-89-6	1.431	0.07		670	
	inorganic material	phosphorus	7723-14-0	0.429	0.02		201	
	non noble metal	copper	7440-50-8	1428.770	66.90	66.99	669036	669907
wire	non noble metal	aluminium	7429-90-5	3.161	0.15	0.15	1480	1480
encapsulation	organic material	carbon black	1333-86-4	3.328	0.16		1558	
	plastics	epoxy resin	-	129.781	6.08		60771	
	inorganic material	silicondioxide	60676-86-0	532.436	24.93	31.17	249319	311648
leadfinish	non noble metal	tin	7440-31-5	21.462	1.00	1.00	10050	10050
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	826	826
solder	non noble metal	antimony	7440-36-0	0.420	0.02		196	
	noble metal	silver	7440-22-4	1.049	0.05		491	
	non noble metal	tin	7440-31-5	2.727	0.13	0.20	1277	1964
*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

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