



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R199CP		<b>Issued</b>		26. September 2017	
<b>MA#</b>				MA000375038					
<b>Package</b>				PG-TO220-3-31		<b>Weight*</b>		2257.83 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	0.39	0.39	3902	3902	
leadframe	non noble metal	zinc	7440-66-6	0.925	0.04		410		
	non noble metal	copper	7440-50-8	615.788	27.27	27.31	272734	273144	
wire	non noble metal	aluminium	7429-90-5	32.587	1.44	1.44	14433	14433	
encapsulation	organic material	carbon black	1333-86-4	2.183	0.10		967		
	plastics	epoxy resin	-	205.205	9.09		90886		
	inorganic material	silicondioxide	60676-86-0	884.129	39.16	48.35	391582	483435	
leadfinish	non noble metal	tin	7440-31-5	6.250	0.28	0.28	2768	2768	
plating	non noble metal	nickel	7440-02-0	0.679	0.03	0.03	301	301	
solder	non noble metal	antimony	7440-36-0	0.420	0.02		186		
	noble metal	silver	7440-22-4	1.049	0.05		465		
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1208	1859	
heatspreader	non noble metal	zinc	7440-66-6	0.746	0.03		330		
	non noble metal	copper	7440-50-8	496.335	21.98	22.01	219828	220158	
*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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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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