



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R190E6		<b>Issued</b>		4. July 2019		
<b>MA#</b>		MA005341242						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2028.17 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	8.148	0.40	0.40	4017	4017
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.19	40.24	402006	402530
	non noble metal	aluminium	7429-90-5	2.447	0.12	0.12	1206	1206
wire	non noble metal	aluminium	7429-90-5	2.447	0.12	0.12	1206	1206
encapsulation	organic material	carbon black	1333-86-4	2.335	0.12		1151	
	plastics	epoxy resin	-	67.717	3.34		33388	
	inorganic material	silicondioxide	60676-86-0	513.715	25.33	28.79	253290	287829
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10582	10582
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.395	0.02		195	
	noble metal	silver	7440-22-4	0.989	0.05		487	
	non noble metal	tin	7440-31-5	2.570	0.13	0.20	1267	1949
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290639	291017
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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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