



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP60R180P7	<b>Issued</b>	11. April 2021
<b>MA#</b>	MA001994444		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2026.98 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	4.174	0.21	0.21	2059	2059
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	40.22	40.27	402241	402765
wire	non noble metal	aluminium	7429-90-5	3.210	0.16	0.16	1584	1584
encapsulation	organic material	carbon black	1333-86-4	2.349	0.12		1159	
	plastics	epoxy resin	-	68.120	3.36		33607	
	inorganic material	silicondioxide	60676-86-0	516.776	25.49	28.97	254948	289714
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10588	10588
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.250	0.01		123	
	noble metal	silver	7440-22-4	0.624	0.03		308	
	non noble metal	tin	7440-31-5	1.623	0.08	0.12	801	1232
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	29.08	29.12	290810	291188
*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 Neubiberg
Internet	www.infineon.com