



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP60R180C7	<b>Issued</b>	15. April 2021
<b>MA#</b>	MA005404050		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2036.15 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	3.951	0.19	0.19	1940	1940
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.04	40.09	400432	400953
wire	non noble metal	aluminium	7429-90-5	3.261	0.16	0.16	1601	1601
encapsulation	organic material	carbon black	1333-86-4	2.983	0.15		1465	
	miscellaneous	miscellaneous	-	2.983	0.15		1465	
	organic material	phenol formaldehyde resin	9003-35-4	35.802	1.76		17583	
	inorganic material	silicon dioxide	14808-60-7	47.735	2.34		23444	
	non noble metal	metal hydroxide	-	47.735	2.34		23444	
	plastics	epoxy resin	29690-82-2	71.603	3.52		35166	
	inorganic material	silicon dioxide	60676-86-0	387.851	19.05	29.31	190483	293050
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10541	10541
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.238	0.01		117	
	noble metal	silver	7440-22-4	0.596	0.03		293	
	non noble metal	tin	7440-31-5	1.550	0.08	0.12	761	1171
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.95	28.99	289501	289878
*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