



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP65R190CFD7	<b>Issued</b>	25. June 2021
<b>MA#</b>	MA005565546		
<b>Package</b>	PG-TO220-3-321	<b>Weight*</b>	1924.01 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	0.21	0.21	2054	2054
leadframe	inorganic material	phosphorus	7723-14-0	0.436	0.02		227	
	non noble metal	iron	7439-89-6	1.455	0.08		756	
	non noble metal	copper	7440-50-8	1,452.764	75.51	75.61	755070	756053
wire	non noble metal	aluminium	7429-90-5	3.289	0.17	0.17	1709	1709
encapsulation	organic material	carbon black	1333-86-4	2.261	0.12		1175	
	inorganic material	zinc borate	-	42.958	2.23		22327	
	plastics	epoxy resin	-	90.438	4.70		47005	
	inorganic material	silicondioxide	60676-86-0	316.534	16.45	23.50	164517	235024
leadfinish	non noble metal	tin	7440-31-5	7.542	0.39	0.39	3920	3920
solder	non noble metal	antimony	7440-36-0	0.238	0.01		124	
	noble metal	silver	7440-22-4	0.596	0.03		310	
	non noble metal	tin	7440-31-5	1.550	0.08	0.12	806	1240
*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.

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