



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP50R199CP	<b>Issued</b>	25. June 2021
<b>MA#</b>	MA005564543		
<b>Package</b>	PG-TO220-3-321	<b>Weight*</b>	1926.29 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	0.46	0.46	4573	4573
leadframe	inorganic material	phosphorus	7723-14-0	0.436	0.02		227	
	non noble metal	iron	7439-89-6	1.455	0.08		755	
	non noble metal	copper	7440-50-8	1,452.764	75.42	75.52	754177	755159
wire	non noble metal	aluminium	7429-90-5	3.331	0.17	0.17	1729	1729
encapsulation	organic material	carbon black	1333-86-4	2.239	0.12		1162	
	inorganic material	zinc borate	-	42.537	2.21		22082	
	plastics	epoxy resin	-	89.552	4.65		46489	
	inorganic material	silicondioxide	60676-86-0	313.431	16.27	23.25	162712	232445
leadfinish	non noble metal	tin	7440-31-5	7.542	0.39	0.39	3915	3915
solder	non noble metal	antimony	7440-36-0	0.420	0.02		218	
	noble metal	silver	7440-22-4	1.049	0.05		545	
	non noble metal	tin	7440-31-5	2.727	0.14	0.21	1416	2179
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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