



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA50R190CE	<b>Issued</b>	24. June 2021
<b>MA#</b>	MA005555597		
<b>Package</b>	PG-TO220-3-312	<b>Weight*</b>	2055.27 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	6.706	0.33	0.33	3263	3263
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		138	
	non noble metal	iron	7439-89-6	0.949	0.05		462	
	non noble metal	copper	7440-50-8	947.445	46.09	46.15	460981	461581
wire	non noble metal	aluminium	7429-90-5	4.184	0.20	0.20	2036	2036
encapsulation	organic material	carbon black	1333-86-4	10.743	0.52		5227	
	plastics	epoxy resin	-	173.811	8.46		84569	
	inorganic material	silicondioxide	60676-86-0	896.616	43.63	52.61	436252	526048
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5398	5398
solder	non noble metal	antimony	7440-36-0	0.344	0.02		167	
	noble metal	silver	7440-22-4	0.860	0.04		419	
	non noble metal	tin	7440-31-5	2.236	0.11	0.17	1088	1674
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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