



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA65R660CFD	<b>Issued</b>	09. February 2022
<b>MA#</b>	MA005618976		
<b>Package</b>	PG-TO220-3-313	<b>Weight*</b>	2208.70 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	3.294	0.15	0.15	1491	1491
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.85	40.90	408452	408984
wire	non noble metal	aluminium	7429-90-5	0.991	0.04	0.04	449	449
encapsulation	organic material	carbon black	1333-86-4	2.301	0.10		1042	
	plastics	epoxy resin	-	215.282	9.75		97470	
	inorganic material	silicondioxide	60676-86-0	926.820	41.96	51.81	419622	518134
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3566	3566
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.209	0.01		95	
	noble metal	silver	7440-22-4	0.523	0.02		237	
	non noble metal	tin	7440-31-5	1.361	0.06	0.09	616	948
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65592	65678
*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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