



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP60R280CFD7	<b>Issued</b>	12. April 2021
<b>MA#</b>	MA005402064		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2025.92 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	2.932	0.14	0.14	1447	1447
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.25	40.30	402451	402975
wire	non noble metal	aluminium	7429-90-5	1.829	0.09	0.09	903	903
encapsulation	organic material	carbon black	1333-86-4	2.357	0.12		1164	
	plastics	epoxy resin	-	68.366	3.37		33746	
	inorganic material	silicondioxide	60676-86-0	518.641	25.60	29.09	256002	290912
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10594	10594
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871
solder	non noble metal	antimony	7440-36-0	0.194	0.01		96	
	noble metal	silver	7440-22-4	0.486	0.02		240	
	non noble metal	tin	7440-31-5	1.263	0.06	0.09	623	959
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	290961	291339
*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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