



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP60R360CFD7	<b>Issued</b>	16. April 2021
<b>MA#</b>	MA005405419		
<b>Package</b>	PG-TO220-3-123	<b>Weight*</b>	2035.09 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	2.444	0.12	0.12	1201	1201
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.06	40.11	400638	401159
wire	non noble metal	aluminium	7429-90-5	2.227	0.11	0.11	1094	1094
encapsulation	organic material	carbon black	1333-86-4	2.994	0.15		1471	
	miscellaneous	miscellaneous	-	2.994	0.15		1471	
	organic material	phenol formaldehyde resin	9003-35-4	35.931	1.77		17656	
	inorganic material	silicondioxide	14808-60-7	47.908	2.35		23541	
	non noble metal	metal hydroxide	-	47.908	2.35		23541	
	plastics	epoxy resin	29690-82-2	71.861	3.53		35311	
	inorganic material	silicondioxide	60676-86-0	389.249	19.13	29.43	191268	294259
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10546	10546
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.172	0.01		85	
	noble metal	silver	7440-22-4	0.431	0.02		212	
	non noble metal	tin	7440-31-5	1.120	0.06	0.09	550	847
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289650	290027
*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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