



## Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP60R090CFD7	Issued	07. April 2021
MA#	MA001698162		
Package	PG-TO220-3-123	Weight*	2029.75 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	7.589	0.37	0.37	3739	3739
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.17	40.22	401691	402214
wire	non noble metal	aluminium	7429-90-5	7.223	0.36	0.36	3559	3559
encapsulation	organic material	carbon black	1333-86-4	2.325	0.11		1146	
	plastics	epoxy resin	-	67.434	3.32		33223	
	inorganic material	silicondioxide	60676-86-0	511.572	25.20	28.63	252037	286406
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10574	10574
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.375	0.02		185	
	noble metal	silver	7440-22-4	0.938	0.05		462	
	non noble metal	tin	7440-31-5	2.438	0.12	0.19	1201	1848
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	29.04	29.08	290413	290791
*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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