



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPP60R022S7	<b>Issued</b>	23. June 2021
<b>MA#</b>	MA005430851		
<b>Package</b>	PG-TO220-3-1	<b>Weight*</b>	2037.00 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	non noble metal	tin	7440-31-5	0.237	0.01		116	
	noble metal	gold	7440-57-5	0.920	0.05		452	
	inorganic material	silicon	7440-21-3	7.219	0.35	0.41	3544	4112
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	40.02	40.07	400263	400784
wire	non noble metal	aluminium	7429-90-5	11.141	0.55	0.55	5469	5469
encapsulation	inorganic material	zinc oxide	1314-13-2	5.891	0.29		2892	
	miscellaneous	miscellaneous	-	23.566	1.16		11569	
	plastics	epoxy resin	-	88.372	4.34		43383	
	inorganic material	silicon dioxide	60676-86-0	471.315	23.14	28.93	231377	289221
lead finish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10536	10536
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
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	28.94	28.98	289380	289757
*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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