



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IGP40N65H5	<b>Issued</b>	24. February 2022
<b>MA#</b>	MA005708564		
<b>Package</b>	PG-TO220-3-1	<b>Weight*</b>	2032.15 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	2.235	0.11	0.11	1100	1100
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	40.12	40.17	401218	401741
wire	non noble metal	aluminium	7429-90-5	6.717	0.33	0.33	3305	3305
encapsulation	organic material	carbon black	1333-86-4	5.930	0.29		2918	
	plastics	epoxy resin	-	112.675	5.54		55446	
	inorganic material	silicon dioxide	60676-86-0	474.420	23.35	29.18	233458	291822
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10561	10561
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
solder	non noble metal	antimony	7440-36-0	0.183	0.01		90	
	noble metal	silver	7440-22-4	0.458	0.02		226	
	non noble metal	tin	7440-31-5	1.192	0.06	0.09	586	902
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	29.01	29.05	290071	290448
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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