



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPA093N06N3 G

**Issued**

09. February 2022

**MA#** MA005618823

**Package** PG-TO220-3-313

**Weight\***

2208.42 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	2.120	0.10	0.10	960	960
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.85	40.90	408505	409037
wire	non noble metal	aluminium	7429-90-5	4.444	0.20	0.20	2012	2012
encapsulation	organic material	carbon black	1333-86-4	2.301	0.10		1042	
	plastics	epoxy resin	-	214.946	9.73		97330	
	inorganic material	silicondioxide	60676-86-0	925.153	41.88	51.71	418922	517294
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3567	3567
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.153	0.01		69	
	noble metal	silver	7440-22-4	0.383	0.02		173	
	non noble metal	tin	7440-31-5	0.996	0.05	0.08	451	693
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65601	65687
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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